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<223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:45-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

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 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Xho I restriction site.

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 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
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607

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<222> (580)..(580)  
<223> n equals a,t,g, or c

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<400> 22
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tcggcacgag aattggggaa aggtattc aatatttatt aagtaacaat gagaaatgca      180
acaaacttcc ttatttatgc cttatgaata aaagagtgtg gaatgtaagg tgaaatttta      240
tgtgcaagat cctgaaggaa tgggtattct tgaaggcagg gactgtcttt tctatgtttg      300
ttctgtacag ctctcagcac actcttgggtg cttgataaat gttatgatgt tataataac      360
caataactaa gcacattttt agatcttttt tcaaagggtg tgtgtaaaat ttggttaatg      420
tacaatgggt gggttggaagc tatcatgtaa aattggcctc tccaaatata atcagaaata      480
aaccgaaaaa aatataaaaa aaaaaaaaaa aaaaactcga gggggggccc ggtacccaat      540
tcgccctata gtgagtcgta tacnctaant nctttttntn cctatagtga gtctta      596

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<210> 23
<211> 1713
<212> DNA
<213> Homo sapiens

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<400> 23
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aaaattatca aatacattaa aaagttaata attttatagt gtactcacta cctagatgct      180
aattagcatt acctatgctt gctttgtcac atatccattc atcatttcat attattattt      240
gatgcatttt aaattgcata tcattaacta gaggtcattg ttggcttttt tacataaaat      300
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gctatggaag taggaaacgt tatcaccacc ctgaaagtt tccacactgc ctttccagt      420
caattcctgt ccctacttga ccctcaaagg caaccactgt tcctttttct accataagat      480
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gccattttta ataaagctgc tatgaccatt cttacgtaag tctttgtgaa cataggtttt      720
catttctttg cagtaaatcc cttggattag aattgctggg tcacagggtg gttttaaaag      780
aaactgccat acctttttcc agttcagttt tattgtgccc tgtattttgt attttgatgt      840
gcataaaggt gtaaaactatt tttatgatcc atattgaagt attagaagaa gtgagtttg      900
aataacaatg gcattgttca tgggtcaagg tgacaattgg aactactga ggaaagcaaa      960
gacctgtctg cccagacag ctccctcaagg ggttcctatg cctgaaactt tagcaatatt      1020
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tacctctccc agctgttcta ttacatacag cattcacctg tattagtcta tagaattata      1500
atcatctgtg tgtttctaag gctcattttc aaaaatatgt atggtttatt cgatttttcc      1560
tattaaaatt ttaagggtcg ggaaatttgg cttctactgt aaatccttat aatgttccac      1620
acattgtaaa tatgcaataa aaatgttaac aactawaaaa aaaaaaaaaa aaaaactcgc      1680
actcgtgccg aattcggcac gagcggcacg agc      1713

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<210> 24
<211> 1856
<212> DNA
<213> Homo sapiens

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<400> 24
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aaaggagttc atggctaatt tccataagac cctcattttg ggggaaggga aaactctgac      180

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taatgaagca	tccacgaaga	aggtagaact	tgacaactgy	ccttctgtgt	ctccttacct	240
cagaggccag	agcaagctca	ttttcaaaacc	agatctcact	ttggaagagg	tacaggcaga	300
aaatcccaaa	gtgtccagag	gccggtatcg	ccctcaggaa	tgtaaagctt	tacagagggt	360
cgccatcctc	gttccccacc	ggaacagaga	gaaaacctg	atgtacctgc	tggaacatct	420
gcatcccttc	ctgcagaggc	agcagctgga	ttatggcatc	tacgtcatcc	accaggctga	480
aggtaaaaaag	tttaatcgag	ccaaaactctt	gaatgtgggc	tatctagaag	ccctcaagga	540
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caggttacgt	tacagtggat	attttggggg	tgttactgcc	ctaagcagag	agcagttttt	720
caagggtgaat	ggattctcta	acaactactg	gggatgggga	ggcgaagacg	atgacctcag	780
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<210> 25

<211> 1693

<212> DNA

<213> Homo sapiens

<400> 25

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gggtctaagg	gacaaaaagc	gtatgcgact	tactgaagtg	caagatgata	aagaggagga	240
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agccaacctg	tggttctcaa	agggcagctt	tgctgggac	gaggacgatgc	cgatgaggc	360
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gcagaagcag	cagctgccac	agacaccccc	ttcctgtttg	aagactgaga	taatgtctcc	480
cctgtaccaa	gatgaagccc	ctaagggaac	agaggcttct	tcggggacag	aagctgccac	540
tggccttgaa	ggggaagaaa	aggatggcat	ctcagacagt	gatagcagta	ctagcagtga	600
ggaagaagag	agctgggaac	ccctccgtgg	taagaagcga	agccgtgggc	ctaagtcaga	660
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cagtctacac	ctggacgtgt	gggccactta	agcctcccc	accccatcc	tattcctaaa	1620
taaaaccagg	ataatggaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1680
ctcgaggggg	tcc					1693

<210> 26  
 <211> 726  
 <212> DNA  
 <213> Homo sapiens

<400> 26	
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gagtcctgaa	gaccagagag
cattgaaaat	tatgttttgg
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cctcttcctt	atcgccctggc
gttcttcatt	gtaagcttct
caaagtttaa	gagcatttag
cagcaaaactg	tgattctcaa
tcacctgtta	tgtattcgtc
gaaagttgta	aactagccca
ctaacattct	attttatgcc
aaaaaa	

<210> 27  
 <211> 2793  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (223)..(223)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2782)..(2782)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2786)..(2787)  
 <223> n equals a,t,g, or c

<400> 27	
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aggcatgcgt	acataggtgg
aaaagcaatc	aatatgtata
cagatcttgt	tacatttgcc
tttctgcag	ttcagtgcaa
tggtaggccc	agtgtaaatg
ggcttatcct	gagtatttaa

ataaatagtt	attttaagaa	actaattcca	ctgaacctaa	aatcatcaaa	gcagcagtgg	540
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ggataaaaat	gtgaacgaag	tttaacattc	tgacttgata	aagcttaat	aatgtacagt	660
gttttctaaa	tatttctgt	tttttcagca	ctttaacaga	tgccatycca	ggttaaactg	720
ggttgtctgt	actaaattat	aaacagagtt	aacttgaacc	ttttatatgt	tatgcattga	780
ttctaacaaa	ctgtaatgcc	ctcaacagaa	ctaattttac	taatacaata	ctgtgttctt	840
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<210> 28  
 <211> 1219  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (575)..(575)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature



<222> (606)..(606)

<223> n equals a,t,g, or c

<400> 28

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gtaaaaacac	aaaatacctc	ccatgcaaat	gtcctaactc	tcttcattaa	tcaatatcta	180
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<210> 29

<211> 2630

<212> DNA

<213> Homo sapiens

<400> 29

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gtgccgcccc	cacagccgag	gcgcgaaagg	gggacgccc	gcctctgggc	cgctgccttc	180
gcttttctct	cgttgttgcg	aacgccgtcc	ctcaggagg	cgccccgcga	ccggcgcat	240
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<210> 30  
 <211> 1052  
 <212> DNA  
 <213> Homo sapiens

<400> 30						
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cctggcgggtg	atgtggggcc	ttaaatcaat	cttctgtctc	acccccctcc	cagtgattcg	180
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<210> 31  
 <211> 1811  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1804)..(1804)  
 <223> n equals a,t,g, or c

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gtctagatca gcaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1800
aanaaaaaaa a 1811

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<210> 32
<211> 530
<212> DNA
<213> Homo sapiens

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```

<220>
<221> misc_feature
<222> (308)..(308)
<223> n equals a,t,g, or c

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ctccctctgc gcaggccctt acttgtgaag gagctagcc gcactcgggt ggctgtcctg 180
gggcacccat gttgtgtgtt ttggttttgt ttattttgta tctgcctggg ttttccaagt 240
ctaatacagga tgtccccttg ggtgacattc tttgctgaga gaagggcaca tgccctcgggt 300
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gagcgagggt ctgtctcaaa aaaaagaaaa aaaaaaaaaa aaaactcgag 530

```

```

<210> 33
<211> 471
<212> DNA
<213> Homo sapiens

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<400> 33
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ggagcccaca ctccctcagc cctcccacac gtcctctca actcctagct gggcttcgct 420
gacttgaacc tggccgagtt tgcgggctcg gggctccaag gtgcgctgct g 471

```

```

<210> 34
<211> 761
<212> DNA
<213> Homo sapiens

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<400> 34
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cctccacaga accagggacg ccggacaagg aggacactgc cttcaggacc cttctgcgga 240
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gtttgtttct ctgagccaag cttaaagtga taatgaagcc aagctggcaa ttaccttct 360
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gcgacacccat tggctcttatt gatggtggca gtgccagggt tgggtgtggg gtaatagcat 480
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gggctggcat tgctgctggg accttccctc acccccatca ggaagacccc tctgctcctc 660
cccaccctca gtgaargggg cagggtcag arccttccgt agaactggct ttattgcatt 720
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```

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<210> 35
<211> 1550
<212> DNA
<213> Homo sapiens

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<400> 35
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<210> 36  
 <211> 2187  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (347)..(347)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2097)..(2097)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2187)..(2187)  
 <223> n equals a,t,g, or c

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<210> 37  
 <211> 4115  
 <212> DNA  
 <213> Homo sapiens

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<210> 38  
 <211> 2196  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1921)..(1921)  
 <223> n equals a,t,g, or c

<400> 38						
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aaaaaaaaaa	agggcggccg	ctctagagga	tccttcgagg	ggcccaagct	tacgcgtgca	2160
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<210> 39  
 <211> 701  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (670)..(670)  
 <223> n equals a,t,g, or c

<400> 39						
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agcccgagaa	gaggcctgcc	cttgggtgctg	gagtcctccct	ccgcacgatg	ctcccacgcg	180
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aagaggatgg	cttgtctccc	agcagccaca	ccggctttgt	gctcagccag	ttcatttgag	360
tttgcatggt	tctctgcact	atggattttg	agcattttaga	tttctttaat	caaaagcggt	420
ttagtgactc	cagcagaccc	actgtcccag	aaaagcctga	tcctgtagtt	tatgtagaat	480
gccacatctg	cgtcctcaag	acctgtttca	tccatttggg	aaaagatgtt	gggaaaggcc	540
actttgctcg	caggggtgag	gggaaggata	gagaatctat	ttttaataaa	taacattcta	600
gaaagaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	660
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a		701

<210> 40  
 <211> 525  
 <212> DNA  
 <213> Homo sapiens

<400> 40						
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taccacattt	ccaagtccaa	acggtgatca	gagaacccca	aaataaaatt	ttggcactga	180
attcatagga	atacaattat	tttaaagcat	tagaaggaaa	gagaactcat	agtctgtgtt	240
actgtgctgg	gtgggcttag	gtttggggct	tgtttgatt	ttgttttacc	aatttagatt	300
cctttccaca	cttgctgct	accacaagta	aggattgagg	ttaaattgggt	tttcatcttt	360
tattgggatt	ggtgaacctt	ttaggattgg	taaactgctt	tctcttgggc	aagccaaact	420
atctctcact	aattgtttca	atagtgcccc	ctttgacctt	cctcttttcc	tttatctcaa	480



acattataaaaa aaaaaaaaaa aagggcggcc gctctagagg atccc

525

<210> 41  
<211> 1526  
<212> DNA  
<213> Homo sapiens

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<400> 41
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aacgtgtttg gggtagtggt gaggtagggg caatgttact ttttctccct gtagtttgga 120
gtccattatg agctgctgct ttttcttctc atcttgtcat cttctgggga tgtttgaagg 180
ctgagttcca acagaattca caaagggaat aaaacaggat tgagattttg aggtgtgcac 240
aaggtggtaa gataaagggc atatgagctt caaaactaat gctgttgcat acatgaagcc 300
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tgctctgtgt tctgtgtgga atggagaaaa aaacgcctgc cctgctgcct tccatgtca 480
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gagattgaaa tttcaaaacta tctctagttt ttcaatggaa atatatcagc tagggaaaaa 1440
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tctttttcaa tttcttaaaa aaaaaa 1526
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<210> 42  
<211> 1875  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (334)..(334)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (966)..(966)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (1304)..(1304)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature

<222> (1319)..(1319)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1329)..(1329)  
 <223> n equals a,t,g, or c

<400> 42

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tgacagcaaa	ggatttagra	tattacataa	acttggttgg	gcagagtttg	agaggattga	240
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aataaattgg	cacagccact	ctagccttca	gcaaccactg	atcactcagt	tcacagcca	420
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agattcactg	ttggtgttat	catccatgaa	tttcaccttc	ctgtgtacaa	acatctctta	780
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cagggnaagg	gcacgggata	atttcccttg	ccattttatt	ttgaaaccag	ctttgttgtg	1020
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aaatggacat	tcgtatatac	ccaccatcca	ggttgagaaa	tagaacattg	cttgtgtctc	1740
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aaaaaaaaact	cgtag					1875

<210> 43  
 <211> 1047  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (34)..(34)  
 <223> n equals a,t,g, or c

<400> 43

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gaagaaatta	cccctgtggt	ctccattgcc	tacaaagtcc	tggaagtgtt	ccccaaaggc	180
cgctgggtgc	tcataacctg	ctgtgcaccc	cagccaccac	cgcccatcac	ctattccctc	240

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ttcaacctca	acgtcacact	caagtccagt	ccagacctgc	tcacctactt	ctgccgggcg	360
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acaaaaaaaa	aaaaaaaaaa	aactcga				1047

<210> 44  
 <211> 924  
 <212> DNA  
 <213> Homo sapiens

<400> 44						
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ctgtttgtagc	tttaactcgt	gtgcacgtgt	gacacataaa	gccccaaagag	aagggtctgcc	180
tggctcagat	gcacttccat	gctgattata	tgcattgggtg	ttgaaagcag	tgctggctga	240
gcagcgatcc	cagtgcagtt	tgacttttatt	ctttgctcaa	ataggtgaag	gcccacggtc	300
ccggcctcga	aggtggtctc	gtgggcaagc	ctgccagatt	caccatcgat	accaaaggga	360
ctggtactgg	aggtctgggc	ttaacgggtg	aagggtccgtg	cgaggccaaa	atcgagtgtc	420
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aaaaaaaaaa	aaaaaaaaaa	aaaa				924

<210> 45  
 <211> 1304  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (41)..(41)  
 <223> n equals a,t,g, or c

<400> 45						
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gctgtccccc	catccaaaac	ccgtgcgcca	ctgcagtgag	tgttgagggc	acctctcctc	180
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ctgttgccgc	ctaactttct	catcctcggt	ctctggaaag	tcaggctgag	aaatcctttc	300
ccaggccagg	ccgctgagg	acactggatg	gttctgaagc	tggccattg	aaagagcctc	360
ttaaggcagc	tgggacagag	gcctggtggc	cctgctgggc	agcccaactg	ctggggggaga	420
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<210> 46  
 <211> 939  
 <212> DNA  
 <213> Homo sapiens

<400> 46						
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ttgcagctgg	tggtcacaga	taaacacgat	gaacttgaag	ctccctcaat	gaaaacagac	180
accagaacca	tctttgtcgc	catcttcagc	tgcattctca	tccttctcct	cttccctctca	240
gtcttcatca	tctacagatg	cagccagcac	ggtgagctca	gagaacgcaa	agggagagag	300
ggggagtga	ggattttctc	ggtaggtaaa	ttcctcctgc	attttttgta	ggttcatcat	360
ctgaggaatc	caccaagagg	tagatgcttg	gcatagctc	tgctccactt	agttcccatg	420
tcattctcaa	gggaacccat	tggcacatcc	gggattggca	ccctgagccc	ccaccccagc	480
ccattctctg	accttctctc	tctcccttct	tctcccttcc	tctccctaca	ttgcccctac	540
cctctccccg	aaatcttcac	atcccatcct	ttcacgtgtg	tctctctctt	tcagaaccag	600
ccattccaaa	cttccagagc	aggaggctgc	cgaggcagat	ttatccaata	tggaaagggt	660
atctctctcg	acggcagacc	cccaaggagt	gacctatgct	gagctaagca	ccagcgcctt	720
gtctgaggca	gcttcagaca	ccaccagga	gccccagga	tctcatgaat	atgcggcact	780
gaaagtgtag	caagaagaca	gccctggcca	ctaaagagg	ggggatcgtg	ctggccaagg	840
ttatcgga	tctggagatg	cagatactgt	gtttccttgc	tcttcgtcca	tatcaataaa	900
attaagtttc	tcgtcttaaa	aagaaaaaaa	aaaaaaaaaa			939

<210> 47  
 <211> 871  
 <212> DNA  
 <213> Homo sapiens

<400> 47						
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ggctgaaaac	ggagagggaa	tgggagactt	gatatttaag	cagcttgaat	ggtttttctt	180
ttctttat	ttaaagaaat	gcacttgcct	atgaactgt	ctctccagt	aatgattac	240
tcctccatta	ctctattgat	acaatattgt	gcattgtagt	gttgtagttt	tatacagtag	300
cttgaaattg	attaacttat	actgtagggt	ttatgtattc	ctatgacaaa	aaaaattaa	360
tcttcaaatt	ttttaaagg	tttttttttt	taatttaatt	ttcccttttg	ggggtaaagt	420
ttgctctacc	aaatagtgat	tgtaacaaat	tgatctgttt	tggatgttgc	tatagtga	480
tgcatgtata	tattttgttt	ttaaaagggg	gggagcaaaa	gaaacaccag	tgtagctta	540
atcttaattg	ctgggtgttt	tcattggtga	attataacta	ttacagtgtt	tggaatacaa	600
caaatatgtt	ctctgaatga	gcctttgtgc	tttttgtcat	gttatgcagt	gaactatttt	660
taagggtctaa	tcagtgtata	tttttccagc	tccgtgtttc	tctaagggaat	tattttcacac	720
acggaccatc	tttagcagtt	tcctcagtg	tggaaatata	tgaatgtgag	tcattatgta	780

gctgtcgtac attgagcaaa taaacttaca gatctgaaaa aaaaaaaaaa aaaaaaaaaa 840  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 871

<210> 48  
 <211> 990  
 <212> DNA  
 <213> Homo sapiens

<400> 48  
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 tcaattgtct cactgatgaa tgtaataatt gttctcgttc atgccctttg cccctggtgt 180  
 cggggctgtc cacactgggg accattgggtg ccccatgat tattagctcc ctgaagcctg 240  
 gtgggtcgtc agggcttctg tccgggtgtt aaagacccat cccagacaag cccaaaccac 300  
 ctcaatttga agagacatag agggacaggc agacggggcc tcagagggat ccagcctcat 360  
 ccagcctccc ggcaacctca ggagagcagg ccagatgggg cctcagaggg atccagcctc 420  
 atccagcctc ccggcaacct caggctgggt cccctccagt gccgactcca cagccctgct 480  
 ggttcccttc cagtgccgac tcccaggctg agtcgctttg cagcgttttg gacgtacgca 540  
 gggcctgtgc tgtgggccag ccacttagtg cacttcctga gctcagaaac acgcagtggg 600  
 tcagcactga gtcattgttg cttctctacg cactgatttg ttctattcca gttttcacgt 660  
 acatcgtttt ggtgacatct ctgcgttatt atttatttat atggagtgtg ttttctcaa 720  
 aacttctcta cgagggaatg cactgctca ttacagctgc tgtctgtgta ttcttcacgg 780  
 caatggatca aaccagactc acacagtctt agactaagct gaacactgga aaaataatac 840  
 atgcttaaaag tctgtctgta ttctaaaatg aaagatatga attcaacaaa gttgatggat 900  
 aactttcttt gactgctcta cctgaattta gactaagcag taaatagttt aataaaagat 960  
 cactttaata taaaaaaaaa aaaaaaaaaa 990

<210> 49  
 <211> 1275  
 <212> DNA  
 <213> Homo sapiens

<400> 49  
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 ctggactagt ggggccttta tatctaaaat tatgtattat tccttatak gagaatctgt 120  
 aagtaagtta tgactgctaa tgacttttaa agcaaacatg ttaacgatct ttctatggta 180  
 aaaactgtta tttggggaca tcaccagatg atgtggacat tcttgacagt attttggcat 240  
 acccaggcaa gctgtcattg ggtatattc cagttaacct ctggagatga tcgtaacagt 300  
 ttacagggcc tttccatttg ggatggatat atcaagaggg agacaaactg gtccaaatca 360  
 ccagaaagaa aatctcacag caccgacttg gcatctgtgt taaaaaatag caactatatt 420  
 taaaaataac tgtacaacat aaaaaattta aattaaaaaa tgcattaagc agttgcctt 480  
 tagaaatgtg aagacatttt aaacactac aagataatga gcaagtctca cctacataat 540  
 catggctcca cagacggtgc cagtccatgc atccaccatt tctcaacacc taaaaagttt 600  
 taagatctgc ttgggttcaga tactgtccag ccacagcagc tccctctgct gtagagagca 660  
 gcatattcag ctttgctttt ttatttcaga tactgaatat cctttggcaa ttccagatat 720  
 cacagcaaaa aaaaaaaaaa ttccaagtgt ttttggcaat catattgggtg atagtgtttt 780  
 tgttactctt aagaatgtta tgggtggagg gggaggatgg cttgagccta agagttcaag 840  
 aacagcctgg gcaacagttg agtgactttg tctctacaaa aattaaaaaa aattagctgg 900  
 gtgtgttggt gtgcaccgtg agtcttggt agctactcca gaggctgagg tggatcactt 960  
 gagccagga gtttgagact gcagcaaac atgattgtgc cactgcactc cagcctggggc 1020  
 aacagagacc gtgtctcaaa aaaaattgca catataacag ataaagtaat gataaagtaa 1080  
 atacgtaaag taaatgagta attatgggac attctaattc ctcacccct atgtctttta 1140  
 gaattaaaaa ttctcagtgt agaaggaaga gtgtaataca gaattgggtta aataaaaccc 1200  
 tataagcttt gaatttgaat tggatataca attggtaaaa taaaaaccct atgagctttg 1260  
 aaaaaaaaaa aaaaaa 1275

<210> 50

<211> 779  
 <212> DNA  
 <213> Homo sapiens

<400> 50  
 ggcacgagat agaataatgc agtggatttc tatcatgcta atttattttg ctttggagca 60  
 ggtacctttc ctctatggca ttatttttctt gcattttctca taaaggggag gatgcatccc 120  
 aactgaatgg ctactggca tgtcttttat gtgttcagtt gccattccta gctttggaaa 180  
 gtttctatct gtccatgtgt atacaagtca atgccccatt tttgtttttc ttttaaccga 240  
 ggtgtagata aggaaaaggg acattttttaa ttacttaata accggaaatg cagatgtgta 300  
 aggagaatga gaggaatgag ttaaagtggg tatgcatttt tcatagatg agccattaca 360  
 gcaaggaatt ttacagttga cttctctgaa cctagcttta ccacagtgat taaatcctat 420  
 ttagaaaagg gaatctgatt taaatgtgtg attccttgta tttgtctcta tcacaaagat 480  
 atattaaagg aggtatgccca ttaatgaaat ccactgtcct gagtattatc tttcctcctg 540  
 ttgtactttc tcagagacta tggcagaata tctggatctt ccttggattt tgtacacata 600  
 ttgtagtga atgtgtccta catctgaaat tgcattgggac tcatgccag caatctgggt 660  
 ctaggccttt gacacctgat aatatgagag caattggcca gccaatagcc ataagcccag 720  
 aggatttttag agcttcatgt gtggctttta agagcaggt tgaaaaaaaa aaaaaaaaaa 779

<210> 51  
 <211> 1316  
 <212> DNA  
 <213> Homo sapiens

<400> 51  
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 gagtgggctg tgtttgttcc tctgtcccag cttctgttgt agaaaataac attgttaggg 120  
 gaactcaggc tagtgtcagc gtcttgggtt ggggagaaaa aattaaatgt ttcggttttt 180  
 gtttcttttg ctgttttgtt ttaccttgt tactttatca tattgacttt aggggtcaag 240  
 gcaacatcag aagaagtcag atatgtatag tgacattcca ggggtgggga aggtgtaggg 300  
 atccagggtt ctcccggtct tggccacagg cacaatcat accttcatcg ttccagattc 360  
 ctggggagaa aactgagaag atcgttacct gccagcctca tacagagcaa aagctctgtc 420  
 ctcagggccca agttctaacc actgctctgt agaccttctc tgcaatcaag tggcctctaa 480  
 ggagcatgcc tgaggacaaa taactgtgcc tcagtttcct cacctgcaga tggggttatc 540  
 aaataacacg aagtgtgcag cctgacctgt aggaggtgtg agtgtgttcc caaactaaag 600  
 cccagggctg ccatcattta caggcttggc ttgccccggg cccctcacc ccgtttctga 660  
 ccattcccaag tctctctggg acaggcaaagt cactctggtt ctttaataag cttggaggtg 720  
 ttgggaagct tcagtgttac tggccaggcc agagggaatc aggccaccag ggctccatct 780  
 ctatcctggg atagcattca cccactcct cctcagggt gaccccgact catggcccct 840  
 ttaaaccctg aaggccgatt ctgccccttc ctctgttata tgcacaaactg aggaaggagg 900  
 taaaagtggg ctcttaggtg agcccaaagt ctcttgagag ataagggaaa agaattggac 960  
 ttagagttta aaaaagttgc tcttggccgg gcacagtggc tcacgcctat aatcccagca 1020  
 ctttgggagg ctgaggcagg aggcagatca cctgacctca ccctgaccaa catggagaaa 1080  
 ccctatctct actaaaaata gaaaaaattag ctgggcgtgg tgggtgagtgc ctgtaatcgc 1140  
 agctactcag gaggctgagg caggagaac gcttgaaccc aggaggtgga ggttgcaatg 1200  
 agccaaaatc gcgccattgc actccagcct gagtgacaga gcgagactcc gtctcaaaaa 1260  
 aaaaaaaaaa aaaaaaaact cgaggggggg cccggtaccc aattcgccct atagtg 1316

<210> 52  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (106)..(106)  
 <223> n equals a,t,g, or c

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<400> 52
gaattcggca cgagctcgtg ccgagagtgc agagctccag gaaaggggtat cagagctgca      60
gccagctctg ccctctaccc tagggaggcc agaaagacac aaacancctc cgggccttta      120
cgctggactc tggcttgcca ggctccaggc agggctcctct gggaagttac tctagaaaac      180
gaagggagga ggagcacaag atcctcagca acgaacacct gcacttagaa aaagtggaca      240
gcttctgcca accacaccct acccatggta ctgtatgcta ttaactcctg gaaacgcccc      300
gtaaatgcga gttgtttttg tatttgtgtg ttgagatggg ccttgtgggt tctctgtat      360
cagagcacat ttcttgaat tactattgtt atttttattg tcatgactgc ccctgagctc      420
tggtgagaaa agctgaattt acaaggaaa ggaatgaagt aatatttgca tcacataatt      480
atatcattac tgtgtaaaaa aaaaaaaaaa aaactcgagg ggggggcc      528

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<210> 53
<211> 778
<212> DNA
<213> Homo sapiens

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<400> 53
ggcacgagat ttcttgaatg aatttcacat ttgtaactat gatttttgca gaatagaaga      60
ttggctcatc agtgaagcgc agtatcttag ctctagattc tattttcatg catcacagaa      120
gtgctatac gttaggtctg tttgtgcctc agtcaagaac taagaaatag tatgaattgt      180
aagtcaagat gggcaactca gatggagcag cttagtctca cagtttgctt gtctatttat      240
tttattttagt gccaaatgta ttccatttta aaagtaagcc agagtgaagc aaggcatata      300
cacactttct cacaaaactt cctaaacaga tttggggggt taatatgtcc aactcctcat      360
gaaatatatt caatccactt aaatatttc catcttttta acataaaatg taaagcttag      420
caccatcat taatttatgt ctctgtttta tccagtgggt aaaaaaggat tctgcctctt      480
tagtcctcac tgttaaataa aacccaatca tagtaagtga ttaactagca aaaagtaaag      540
ctattttatag caaatttcta gatcattaga aaagcactgg tagttgtaca ataatagtgt      600
tgactttgaa cttctttaac gagatcatga attcttttcc cttagccaaa acatgaaata      660
tttaacctag ttgtctctaa aagttttgta atcatgagtt agatatatgt catctcctat      720
tcattgcttt tatgtgatca ataaatcttt tacaaaccca aaaaaaaaaa aaaaaaaa      778

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<210> 54
<211> 1302
<212> DNA
<213> Homo sapiens

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<400> 54
ggcacgaggt ctgtttgatt tttaaaagga aaggatttgt ttcagattat acaagaataa      60
aagtattata gacccaaggg acttcttatg aggtcaaatt cagatatatta tatgaatatg      120
aaataccatg gtccctagta gtcagttgaa gtggcaatgt ctaaacagaa atgaaaaaa      180
ctaattgctag caggttaaaa tcaatcaaaa tgtttaaaaa ttgattctgt cctcagcatg      240
ttacttcctc agctctgata atttactggt cttgagtatt ttgagaattt gatgttgaac      300
gttataaagt caaagaactg cttgtttaga tgaggtttat ttttattttt gatattattc      360
attcttgtca cacatcaaga agaaaacact agagtgtctg tgggaattcca aatctgaaga      420
attctaacga ctgcattctt tgttattaaa aagggcacaa tccttccttt ttatttggca      480
gtttaatttc agtaggaagc atgtcacatg tgcactgttg gttagaatta tgcactgtgc      540
atgcctgact gctgaaccct acctaagcct tttggcgag tttaaaacttatactggtg      600
actgtgaacc tcaaaaacaaa tgggtatttt tgggttttga ggatagatgt tactccttaa      660
agtttgtatt tggggcatga aaaactactg aaagaagaaa agtgctacag atactacatt      720
tcaaagagtt ggcatttttc ctttggccac tcaagcagca tttgatgtat ctaaagaaac      780
aaagtcattg tttattttta aaaattatat gcagttgtac aagatactac attccattga      840
aatgttggct atgtcctaac caggcaacca gataacaaaa acattttgag tcttttatct      900
aggtagtctt aattattcag ctacttagtt taacaaagga aaatatcctg acttctctca      960
tttcattttg agacttttca ttgtataggc acaaccaaag agtagactg gtttaaaact      1020
ccagaaggaa aaaaagtatc ccacacagt ggtgtgtttt ctaagaatgc tacaaaatcc      1080
tgacatctca gacatctcaa tgttaaagga agaaaaaaaa taccttttca tttcaaagaa      1140

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ctaataatact	ttgatattgt	gtaaacctta	ctcaagttta	ttgtcaagct	ttaaactgcct	1200
ttttagaact	ttttaaaatt	tcgagcccac	aaatctattg	tattagttgc	cttctataac	1260
aataaatctt	cactgagcaa	aaaaaaaaaa	aaaaaaaaaa	aa		1302

<210> 55  
 <211> 1277  
 <212> DNA  
 <213> Homo sapiens

<400> 55						
ggcacgagct	ttaattcaaa	aatgtttgta	gttaacatta	ttttgtttc	ttcagttggt	60
gcttggaatg	ttttataact	gaccaagttg	gtatgtgacg	tttatTTTTc	tctgactata	120
aaagtaaaaa	agaactgaaa	atacccaaaa	agtaatgttt	tatagaaaagt	ctccccattga	180
tttaagaagt	tatctattag	attgatatca	gaagtttcat	atgagtattt	ggcttatgca	240
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taggattcaa	ttcagaaaat	agttgtgaat	ctgttttatt	ttggttacag	cctactcata	420
cgatttattt	catattttct	aagtgtattt	ttgttcttct	gtatgtttc	ttggcccttg	480
agtcttctct	gtctttaatc	tttctctcct	ctcctactat	ttatagccag	tctcatatta	540
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acaaagtttc	gcaaatacaa	tgtatcttca	ctcctgtctg	atttaagaca	cagctatctc	660
agtatcctaa	aataacaatg	taattatttt	ttggcatacc	cttgccctgac	ttctgaggac	720
ctcactaagt	ctagttctag	cctttgtaga	atgggtcaact	tctttcatca	aggctttggt	780
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atggattttt	tcttcaaact	tgtttattta	atataagtt	ttcatttttg	gcagcatatg	900
gatgatttta	tttttaataa	tcatatctct	tagtaaaacta	atggttaaat	aatatttaaag	960
tataagaagc	taaaattggc	caggtgtggt	ggctcacgcc	tgtaatccca	gcactttggg	1020
aggctgaggc	aggcagatca	cctgagggtca	ggagttcaag	atcagccctgg	ccaactgtgt	1080
gaaaccctgt	ctttactaaa	aatacaaaaa	ttagctgggc	gtgggtggcg	acgcctgtag	1140
tcccagctac	ttggggaggct	gaggcgagtag	aatcacttca	acccaggagg	tggaggttgc	1200
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aaaaaaaaaa	aaaaaaa					1277

<210> 56  
 <211> 1058  
 <212> DNA  
 <213> Homo sapiens

<400> 56						
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ttgatttgag	agtttagtgc	gtttccattg	ttattaagaa	gtaaggatat	gttctgccat	180
tgtattgttt	gtcttttgct	tgttttggtg	tcttctcttc	ctttcttcat	tccttcattt	240
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gttcactcttt	tagtctttct	ccttaagatc	agagtatttt	atatatcaca	tttacagtgt	600
tataatatgc	tgcatttttt	tgtgtactta	ctattaccag	tgagtttttg	accttcagtt	660
gatttcttat	tactcatcaa	cttctttttc	tttctgattg	aaaaactccc	aggctggaca	720
cggtggccca	tgcctgtaat	cccgcacty	tgggaggctg	agggtgggctg	atcccttgag	780
gtcaggagtt	cgagaccatc	ctggaaaatg	tggcaaagct	ccatctgtwc	taaaaaatata	840
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	gggcggcc			1058



<210> 57  
 <211> 989  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (338)..(338)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (352)..(352)  
 <223> n equals a,t,g, or c

<400> 57  
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 ttgccgaggg aggaaagccc accggtggag tgggcagagg ggttgggtgtg ggactttctg 120  
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 agagaaatct ttttacagtt tcaaattatg ttcaacaaataaaaaattgca ttttttattt 960  
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<210> 58  
 <211> 1919  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1903)..(1903)  
 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <211> 443  
 <212> DNA  
 <213> Homo sapiens

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aaaaaaaaaa	aaaaaaaaaa	aaa				443

<210> 62  
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 63						
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<210> 64  
 <211> 2288  
 <212> DNA  
 <213> Homo sapiens

<400> 64						
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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 <223> n equals a,t,g, or c

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 cagatggagg actgggctcc tctgctccct tctagcgctt ccctcctgcc ctgaactgga 780  
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 tgagtgtcca gccccaatg caaacagcaa cccagggctc tgaaactact ttttttctta 1380  
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 aa 1442

<210> 67  
 <211> 1103  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
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 ctctgttgct gccaccaacc gcataaggcg agctgcaaag ccatgccatc tgcaggctcc 180  
 aatgtaccat agatgactcc tctcttctcct cctcctccag cctggcttgg agcagctaga 240  
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 tccaaagtcc agcctctcct tctggcaaaa gctggccagg aactgggc cagggtgagt 420  
 gtgtgtgcct ttgctgaaac cagccctagg tcaggctcctg ctggacagaa attgctgggt 480

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ccccaccac	agtggtgccc	actactccct	gcccagtagt	cccaggttgt	ctctgcaaca	660
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gaaacctgcc	cccccaacc	cac				1103

<210> 68  
 <211> 1047  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<400> 68						
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gaaacaaaa	caaaaacaaa	agtgggtata	aatatgactg	caaaactgct	ctgagctgct	180
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aaactccac	tgtaacatca	aaaaatgaat	gattttttca	attcccttta	ttagggtttc	480
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gccaattttct	gtctgcactt	tatccacgat	attcccatgt	tttctgctct	tactagaaac	960
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<210> 69  
 <211> 1048  
 <212> DNA  
 <213> Homo sapiens

<400> 69						
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tttctgtca	cagttaggaa	agtggcagaa	gccgtatttg	aaccccagca	ggtctccctc	180
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gccagagat	gggggtggtg	acttgaaggg	gttggaagc	ctgggctcct	ccagcgaaaa	300
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ttggatgcct	tttattcctc	cttcctaatt	gaagtctggg	cattgctggg	tgccatggca	420
gcagccaaag	cgctcatctc	actgtggcct	gtctctgcct	gcggccaatg	ggaaacctcc	480
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cagattacag	gtttggagga	acacacagcc	caccttccca	atatcgagc	caacagttcc	960
accaaagtcc	ctgcatggca	tcacagggag	cctagttgcc	caactgctcta	ctgctgagct	1020
caatgccacc	cagcccgggc	tctctcga				1048

<210> 70  
 <211> 825  
 <212> DNA  
 <213> Homo sapiens

<400> 70						
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gggcctggga	gctgcacagg	ggagaactcg	ataaggagca	tcatgagcat	agtgggtcca	180
ttgacaacat	gcagtcccca	cggggtgcc	taatgacaaa	atgacatcat	gccacctgca	240
aaaaaagtaa	aaatgatcag	aggcgagctt	gtcagagaag	ctttgaacta	ggtgactgca	300
tgaaacatct	cagaggcgga	agagtgcctc	cccccccccg	ggactcccac	ctgggtgcct	360
gagctcatca	tcccttctct	tgtagcatat	gctgtcaata	cccagggcct	tttgaaacg	420
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cctccttggg	gctcagctgc	tggtcagctc	catatgccct	gtgggtccctg	ccctcccaag	540
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gtggcacctg	tcgtgaaaca	ggccagagtc	tacgcaatct	ggggtgtgag	ctgagtggca	660
cctgtcgtga	acgtgcatgc	acatgggcat	tttgtcagtc	tgcaccgggtg	aataaatgtc	720
gctgcatttg	ccagctgagt	gtcaccaggt	tccagggtccc	attacacatc	aggaattgtg	780
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<210> 71  
 <211> 621  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (616)..(616)  
 <223> n equals a,t,g, or c

<400> 71						
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tttggatatg	ctgatacatt	tcataataat	tttaaaaagg	acaagactac	tgcagagaaa	180
tgcatagagt	gagctctgtt	tgggttttta	aaatgattcc	tacatctatg	cttgagatg	240
taagcaccag	ccctggaaaa	cattgcaagg	gattccttag	aggcccagc	tttgggaaag	300
ggccaagggg	gctggggagt	tgattaggag	gggatacatg	cttttctctg	ctgccttttg	360
aattttgtac	cacacgtagt	attacttatt	aattaaaaaa	taatctgaac	tagccaggcg	420
tggtagcaca	tacctagtct	cagttacttg	gaaggctgag	gcaggaggat	cacttgagcc	480
caggtggttg	cgccagacct	gggcaacata	gtgagaccct	gtctctttag	aaaaaacagg	540
ccaggcatgg	tggctcacac	ctgtaatccc	agcacttttg	gaggctgagg	tgggtggatc	600
acctgaggtc	gggagntcga	g				621

<210> 72  
 <211> 817  
 <212> DNA



<213> Homo sapiens

<220>

<221> misc\_feature

<222> (4)..(4)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (7)..(7)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (600)..(600)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (683)..(683)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (685)..(685)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (728)..(728)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (811)..(811)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (814)..(814)

<223> n equals a,t,g, or c

<400> 72

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aaattcatgg	gagtgggatt	attaaataga	ataatatgaa	caattgtatg	gcttatgttt	180
gccttattgt	attcccaaag	agctgtaaca	ttttatagca	tcaccacttg	ggcaggggta	240
ttacctgttg	ttgctaattt	agtaagtaga	agagagagat	caaagtttct	ctaatttgtg	300
tttgtgtaat	ttatctgtat	acttcttca	tttatataaa	taaatgtctt	cactttggga	360
ggctgaggcg	ggcagatcac	ctgaggtcag	gagttcgaga	caagcctggc	caacatggta	420
aaaccccgtc	cctactaaaa	atacaaaaat	tagttggatg	tggtaggctca	catctgtagt	480
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cactggccgc	gttttacaac	gtngngactg	ggaaaaccct	ggcgtaccca	acttaatcgc	720
cttgcagnac	atcccccttc	gccagctggc	gtaatagcga	aaaggcccgc	accgatcggc	780
ctttccaaca	gtgccaacct	gaatggcgaa	nggnaaa			817

<210> 73  
 <211> 1125  
 <212> DNA  
 <213> Homo sapiens

<400> 73  
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 tctcctgtga tgccctgtga aatggcttgt ctccctcccc atcagggccc accgaaagct 180  
 caggggagca cagaagccca tggaagccca gggagatgtc cctggggcag acactaaggc 240  
 aggtgttgaa gacaagctgc ttgtcaagaa gcatttcccg gcaagagagg ggcaagtcgg 300  
 gggctccaac tgggtacagc ctgggtgcag ttataagccc ctttggctta cttggtagaa 360  
 gatggctact tggatgtacc tcacttaaag atgttttcta ccacactagg tctctgggcc 420  
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 tggagagaaa gggcttccag gcccctccaa gcctggggaa ggacgtggca tccaagctga 540  
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 gtggcagggc ctccccaggc agctctggga cctaggagtt tgcttctgat agggctcagct 660  
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 gccctgctgg gaccttgtgg cttggctgga atccaggact gtattttcat ggagaagaac 780  
 ctgcagattc ttccatcctc agctggccat ggcccacagc tctgcatctg catctgagct 840  
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 tccgtctcgg agattcttgt cctgtttttt tttctgttgt ttttttttgg ctggtgctgg 960  
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<210> 74  
 <211> 1284  
 <212> DNA  
 <213> Homo sapiens

<400> 74  
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 ccagagcctt tgccacagtg ctccccaccag cccccacctc atccgtctgt ttgcagagcc 180  
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 aaaaaaaaaa aaaaaaaaaa aaaa 1284

<210> 75

<211> 2927  
 <212> DNA  
 <213> Homo sapiens

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<400> 75
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aacctgctga aattaagatc atcagagaag catataagaa ggccttttta tttgttaaca      180
aaggtctgaa tacagatgaa ttaggtcaga aggaagaagc aaagaactac tataagcaag      240
gaataggaca cctgctcaga gggatcagca tttcatcaaa agagtctgaa cacacaggtc      300
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<210> 76  
 <211> 1249

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1138)..(1138)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (1196)..(1196)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1202)..(1202)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1225)..(1225)  
 <223> n equals a,t,g, or c

<400> 76  
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 gtgaagaaaa aaatgacact ccaatgggct gcagtggcaa cctttcttta tgccgaaata 120  
 ggactcattt taatcttctg cctacctttt attcctcctc agagatggca gaagattttt 180  
 tcatttaatg tctggggtaa aattgcaact ttttggaaca aggctttcct taccattatc 240  
 atcctattga ttgttctatt tctagatgct gtgagagaag taaggaaata ttcctcagtt 300  
 cataccattg agaagagctc caccagcaga cctgatgcct atgaacacac acagatgaaa 360  
 ctttttaggt ctcaaagaaa tctttacatt tctggatttt ccctattttt ttggctagtt 420  
 ttgagacgtc tggttacgct tattactcaa ctggcaaaaag aatgtcaaa caaagggtgta 480  
 cttaaaactc aagcagaaaa tactaacaag gctgccaaaa aatttatgga agaaaaacgaa 540  
 aaactaaaaa ggattttgaa aagccatggg aaagatgaag aatgtgtttt ggaagcagaa 600  
 aataaaaaac tagtagaaga ccaggagaaa ctgaaaactg aattaaggaa gacttcagat 660  
 gccctttcta aggcacaaaa tgatgtgatg gaaatgaaga tgcagtcaga gagactttcg 720  
 aaagaatatg atcaactcct gaaagaacac tctgaacttc aggatcgttt agaaagaggc 780  
 aacaagaaaa gactgtgaac tttataaaaag acacttgcaa tatactgtgt caaaatgata 840  
 attttgttat gttagcctct agaaaattta agttcagaa aatgcactat gaccggttcg 900  
 taattttttt aatgccacac atagggttgta ttgtaatggc attatcaaaa tattttgatga 960  
 tgtttcagat atattgcaaa gtctgtattc cagctcttaa gaaaaatata agcatgttaa 1020  
 ataccatatt tacatatgta taatgtcatt ggtatatggt ggctgtttac caataaaaagg 1080  
 aaaaaattca ttaaccgggt gcttccaaaa ttaggaagwt ytamgttgca tgaaaccntt 1140  
 aataggcctt ggaaagcttt ggattaaggt tttccaggta attaataacc cctttnaatt 1200  
 cnggatggat ggtgtgtttg gaaanagggt ttccatttcc ggccaattt 1249

<210> 77  
 <211> 3097  
 <212> DNA  
 <213> Homo sapiens

<400> 77  
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 ggcgcccaca cctgtctgag cggcgccagcg agccgcggcc cgggcgggct gctcggcgcg 120  
 gaacagtgtc cggcattgga gggattccag ggctcctctt ccttctcttc tttctgtctc 180  
 gtgctgttgg gcaagtgagc ccttacagtg cccctggaa acccacttgg cctgcatacc 240  
 gcctccctgt cgtcttgccc cagtctaccc tcaatttagc caagccagac tttggagccg 300

aagccaaatt	agaagtatct	tcttcatgtg	gacccagtg	tcataaggga	actccactgc	360
ccacttacga	agaggccaag	caatatctgt	cttatgaaac	ttgctctacc	agcaatgcga	420
tgcccagcca	ggggccagcg	ggtctggggt	ctatgtgagg	atgtggaaga	gacagcagca	480
gaagtgggag	cgaaaaatta	ttggcatttt	ttcagggcac	cagtgggtgg	acatgaatgg	540
ttccccacag	gatttcaacg	tggctgtcag	aatcactcct	ctcaaatatg	cccagatttg	600
ctattggatt	aaaggaaaact	acctggattg	tagggagggg	tgacacagtg	ttccctcctg	660
gcagcaatta	agggctcttca	tgttcttatt	ttaggagagg	ccaaattggt	ttttgtcatt	720
ggcgtgcaca	cgtgtgtgtg	tgtgtgtgtg	tgtgtgtaag	gtgtcttata	atcttttacc	780
tatttctttac	aattgcaaga	tgactgggtt	tactatttga	aaactgggtt	gtgtatcata	840
tcatatatca	tttaagcagt	ttgaaggcat	acttttgc	agaaataaaa	aaaatactga	900
tttggggcaa	tgaggaatat	ttgacaatta	agttaatctt	cacgtttttg	caaactttga	960
tttttatttc	atctgaactt	gtttcaaaga	tttatattaa	atatttggca	tacaagagt	1020
atgaattctt	atatgtgtgc	atgtgtgttt	tcttctgaga	ttcatcttgg	tggtgggttt	1080
ttttgttttt	ttaattcagt	gcctgatctt	taatgcttcc	ataaggcagt	gttcccat	1140
aggaactttg	acagcaattg	ttaggcagaa	tattttggat	ttggaggcat	ttgcatggta	1200
gtctttgaag	agtaaaatga	tgtgttgact	atactgatac	acataataaaa	ctatacctta	1260
tagtaaaacca	tgatcccaag	ctgcttttag	ttccaaaaat	agtttctttt	ccaaagggtg	1320
ttgctctact	ttgtaggaag	tctttgcata	tggccctccc	aactttaaag	tcataccaga	1380
gtggccaaga	gtgtttatcc	caacccttcc	atttaacagg	atttactca	cttctctgga	1440
actagctatt	tttcagaaga	caataatcag	ggcttaatta	gaacaggctg	tatttctctc	1500
cagcaaacag	ttgtggccac	actaaaaaca	atcatagcat	tttaccctctg	gattatagca	1560
catctcatgt	tttatcattt	ggatggagta	atttaaaatg	aattaaattc	cagagaacaa	1620
tggaagcatt	gcctgtcaga	tgtcacaaca	gaataaccac	ttgtttggag	cctggcacag	1680
tcctccagcc	tgatcaaaaa	ttattctgca	tagttttcag	tgtgctttct	gggagctatg	1740
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ttaagaaaac	cagtgtggcc	tttttccctc	tagcttttaa	agggccgtt	ttgctggaat	1860
gctctaggtt	atagataaac	aattaggtat	aatagcaaaa	atgaaaattg	gaagaatgca	1920
aatggatca	gaatcatgcc	ttccaataaa	ggcctttaca	catgttttat	caatatgatt	1980
atcaaatac	agcatataca	gaaaataactt	ggacttattg	tatgttttta	ttttatggct	2040
ctcggcctaa	gcactttttt	ctaaatgtat	cggagaaaaa	atcaaattgga	ctacaagcac	2100
gtgtttgtctg	tgcttgcccc	ccaggtaaac	ctgcatttga	gcaatttgta	aggatattca	2160
gatggagcac	tgtcacttag	acattctctg	ggggattttc	tgttgtctt	tcttgagctt	2220
tttgggaagga	taattctgat	aaggcactca	agaaacgtac	accacagtg	ctttcttcaa	2280
atcatatgag	aaatactatg	catagcaagg	agatgcagag	ccgccaggaa	aattctgagt	2340
tccagcacaa	ttttcttttg	aatctaacag	gaatctagcc	tgaggaagaa	gggaggtctc	2400
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gttcaactga	caccaagacc	agaatggatt	tttttaaaaa	aatagatgtt	ccttttgtga	2520
agcaccttga	ttccttgatt	ttgatttttt	gcaaagttag	acaatggcac	aaagtcaaaa	2580
tgaaatcaat	gttttagttca	caagtagatg	taatttacta	aagaatgata	cacccatagt	2640
ctatatacag	cttaactcac	agaactgtaa	aagaaatta	taaaataaatt	caacatgtcc	2700
atcttttttag	tgataataaa	agaaagcatg	gtattaaact	atcatagaag	tagacagaaa	2760
aagaaaaaag	gactcatggc	attattaata	taattagtg	tttacctgtg	ttagttatac	2820
atattagaag	catatttgcc	tagtaaggct	agtagaacca	catttcccaa	agtgtgctcc	2880
ttaaacactc	atgccttatg	attttctacc	aaaagtaaaa	aggttggtat	taagtcagag	2940
gaagatgcct	ctccattttc	cctctcttta	tcagagggtc	acatgcctgt	ctgcacatta	3000
aaagctctgg	gaagacctgt	tgtaaaggga	caagttgagg	ttgtaaaaatc	tgcatttaaa	3060
taaacatctt	tgatcacaaa	aaaaaaaaaa	aaaaaaaa			3097

<210> 78  
 <211> 1160  
 <212> DNA  
 <213> Homo sapiens

ttaaagtggc	tgcccttcca	ctgaaagtgt	agctttttga	cagtctcagc	catataaaca	60
ggatctcagt	ttcatccttc	catccatoca	ttagaggcac	aagggtctcat	ctcttttctc	120
tttgggcatt	aaaaccaaag	ttcatacatt	attgagacag	gccgactctg	ctaaggcagc	180

ctgtttggcc	tttaagtttt	attgcttatt	ttttgagtat	gtattttattt	ttttgattat	240
tattattttt	ttttttgagc	tttaagcctt	caagtttcct	ttttattctt	gacccttaga	300
catttccttt	gcttgtggac	tcgggtattt	gttttaggt	aatatttttw	ttccctatga	360
cacagccctc	aggagatcct	gagaacatgt	gccctcattt	ttaggtaatt	ttaattagga	420
agggttttag	gttgtctgat	ctgccttggt	gctagaaaca	gaaattctcc	tatkgattga	480
tttttcaaac	cacttccttag	tggcctctac	aactactcca	gtcagggtcaa	gaatggctct	540
cacattgccca	agtcagtgagg	tatttttagt	cttcactctta	gatgaccttt	atgcacattt	600
gtctttgtct	aggaacttct	gttggaaca	tcttctattt	taatgttatt	ttaaattttt	660
ttgcttttgt	aacatttatgc	ttagcatgtg	tgtccaactc	tttgacaatt	tctttttagt	720
tttctggtgg	cttcccttta	tccaaattta	gtattgaaat	tcctcgagcc	gctgcttttc	780
tcaactccata	attctggcca	gaatttggtta	cttaaaatat	tttgtctaaa	atattacaat	840
agctacttaa	gtcatctccc	tgactccact	ctgttgtctt	tcagggcgtc	gtccacactg	900
tagccaaagt	gatcttataa	aaacataatt	ctaactcatgg	cactcttctg	cttaaaatg	960
ttttaatggc	tttccgtttag	gttaaaaattt	aaaagtcctt	tgtagcctgt	gagactctac	1020
atgagttgac	tccctagctt	catctttgag	catcttattt	ctttacttat	tataccatca	1080
gttagagttg	attggttatat	aatccacaga	agtgaattct	gtccgattta	agcaaaaaaa	1140
aaaaaaaaaa	aaaactcgag					1160

<210> 79  
 <211> 1061  
 <212> DNA  
 <213> Homo sapiens

<400> 79	
ggcacgaggg	acattgcccc
gcctcatctt	ccttcatctc
aaagtgcaca	gaatgagatt
cagtaaaatt	aagggaacct
ctgtacatac	gtgatgatga
gaggccagtc	ttctgtttcc
tttcatgtat	tccttgtata
ctcctgtgat	cttattttct
tggccaaggc	tgacagttaga
agaaatttag	gttaacgcga
gatgctgcta	aacacccgcg
agtagtgctg	argttggaaa
gaagtttcaa	taattaaaaa
ttaggcctgt	aaatcccarc
aatttgagac	ctgtgttggc
catggtggct	cctgcctgta
gagtccagga	ggttgaggct
gacagagcaa	gaccctgtct
ccccgctgct	gaggetgttc
cacttctctt	tgccctggacc
agcaattctg	agttagcttt
atatagtttc	aaatatagat
tgtatcagag	agtgtgaatt
gcatactctc	atgcaaatct
cttgggaggg	tcacttacaa
agagttttcc	cccattttac
ggatatttgt	cgtgtctg
tctagttagt	ggaggccagg
atgatctagc	cccagatgcc
acaactgata	ggaaaaacat
acagggctgg	gcatgggtggc
gaggatcact	tgagcttagg
ctaatatata	tatatctggg
ttgaaggggg	agaatggctt
cactgtactc	cagcctgggc
a	

<210> 80  
 <211> 1287  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1287)..(1287)  
 <223> n equals a,t,g, or c

<400> 80	
ggcacgaggg	amgatggcca
agtggacgac	aaagttcttc
gattcctctg	gattatgaaa
ccaccaagcg	cgtcttgtag
atgctgcgtt	cattcctttt
cagaaaaagca	ccgaggattt
gtgggtggac	tggcagagga
ggagacatca	cagatattca
gctttgttg	aatttgagtt

ggcagaggat	gctgcagcag	ctatcgacaa	catgaatgaa	tctgagcttt	ttggacgtac	240
aattcgtgtc	aattttggcca	aaccaatgag	aattaaggaa	ggctcttcca	ggccagtttg	300
gtcagatgat	gactggttga	agaagttttc	tgggaagacg	cttgaagaga	ataaagagga	360
agaagggatca	gagcctccca	aagcagagac	ccaggaggga	gagcccattg	ctaaaaaggc	420
ccgctcaa	cctcaggtgt	acatggacat	caagattggg	aacaagccgg	ctggccgcat	480
ccagatgctc	ctgcgtttctg	atgtcgtgcc	catgacagca	gagaatttcc	gctgcctgtg	540
cactcatgaa	aagggctttg	gctttaaggg	aagcagctc	caccgcatca	tccccagtt	600
catgtgccag	ggcggtgatt	tcacaaacca	caatggcact	gggggcaagt	ccatctatgg	660
gaagaagttc	gatgatgaaa	actttatcct	caagcatacg	ggaccaggtc	tactatccat	720
ggccaactct	ggcccaaaca	ccaatggctc	tcagttcttc	ctgacatgtg	acaagacaga	780
ctggctggat	ggcaagcatg	tgggtgtttg	agaggtcacc	gaaggcctag	atgtcttgcg	840
gcaaattgag	gcccagggca	gcaaggacgg	gaagccaaag	cagaagggtga	tcacgcgcca	900
ctgtggggag	tacgtgtgag	gcggcactct	ctctgcttcc	ccctccgctc	ttgaccctgc	960
atatccagga	aggaactgcc	agcctcagag	gagcagcac	cgagggtgcc	tgtttgaagc	1020
aagcagcatt	tgggatattg	gcccttcttc	agggctgtgt	tggagcagct	cctctgcagg	1080
caagcctgg	actattccca	ggcacagctg	tgggccagg	agccagctca	ggtgctcccc	1140
tccaccatgg	cgaggctgtg	caaaaagcac	tggcttttct	cagcatttgc	tgctgggcct	1200
ctcctgggac	taccagtgtg	gctcttacgt	gttttctttg	ctaaaataaa	ccctagtctt	1260
tawaaaaaaa	aaaaaaaaag	gcggccn				1287

<210> 81  
 <211> 762  
 <212> DNA  
 <213> Homo sapiens

<400> 81						
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ggctgggggt	ccctggccca	aggggtccagc	ctcctctcac	cccattccag	gtggcatact	120
gcagtctggc	tctttctccc	ctccctcccc	acccaagcct	cacctcccca	ccccttgaac	180
ccccatgcaa	tgagcttcta	actcagagct	gatgaacaaa	agcccccca	cccccaatgc	240
ctgcctcctc	actcctccgt	cgctgccctt	cacacctttt	ggtgctaccc	ctccccagag	300
ttaagcatgg	atgtctcctg	atcccaggct	gggaccccta	ccccaccccc	ctttgatcct	360
ttctacttcc	acgggtgaaag	gactgagggtc	ggactacaga	gggaagaggg	acttcccttg	420
actgggttgt	gtttcttttc	ctgcctcag	ccagctctgc	aaatccccctc	cccctgcccc	480
tcacctcccc	aggctcacct	tgccatgccca	ggtgggtttg	ggaccaagat	gttggggggg	540
tgaatcagga	tcctaattgt	gctgccctat	ttatacctgg	gtctgtatta	aaagggaag	600
tccccctgt	tgtagatttc	atctgcttcc	tccttaggga	aggctgggat	atgatgagag	660
attccagccc	aagcccgccc	ccccaccgcc	aggccatagg	gcataatttg	catctcaaat	720
ctgagaataa	actgatgaac	tgtgaaaaaa	aaaaaaaaaa	aa		762

<210> 82  
 <211> 1024  
 <212> DNA  
 <213> Homo sapiens

<400> 82						
ctgcaggaat	tcggcacgag	cttatttttac	ctgtgagtta	actaagattt	agaaaaaat	60
tcaaggtcac	ataatatgtg	tgactctcat	aaagactgtc	aagccaaagc	atgcttttaa	120
cctccatgcc	ttaaattctga	aacaccgtta	gttgacatct	ctcactgaaa	ataatcacia	180
catcgacttc	ttagaaagat	aagatacatt	tgtctttcct	gaatatatga	tttgcttttg	240
ctgtttttgtg	gagatgttcc	ttgttctttg	tatgtgtctt	ctcatgtgtg	tctctgtact	300
cacattgtcta	gctgtgcggg	ctttgtctcc	cttctcttca	tgccagctag	tggcatgatg	360
gagagactgt	ggtctagact	gaggattatg	acagcataca	aaactgactc	aacacttaca	420
ggtaaaaaaa	atgagcagtg	gtttctttta	tttatttctg	ttatccacta	catagattcc	480
atgtggattt	aagaaactca	aattcaagta	gaaatatcta	ttaatagcta	ttaaccaatc	540
atgcatctca	tgtcttagga	gattctatcc	tgtagataaa	atgaggaaat	cattttattga	600
ctgccttttt	gggaaataac	tctatgggtc	ctagaagaca	tcttcgttta	cttcagtgc	660

catggccttg	agtttcattc	aggaagatgg	tccaaaatat	gagaatgtgt	ttattccttt	720
aagatatgta	aattgtttat	atcaatatca	acttatcctt	tttgggagag	aaatacataa	780
gtagtacttc	actttcatta	gttattttaac	attcaaaatc	tctcaagtca	tttaaccagg	840
tgcaatggct	catgcctata	atcccagcac	tttaggaggc	tgaggcagga	ggattgcttg	900
ggcccaggag	tacgagacca	tcctaggcac	acagtgagac	ctcaatctct	acaaaaawaaa	960
aaaaaaaaaa	ctcgcctcgt	ccgaagggg	gtcccgtacc	caatcgccct	cacatgcatc	1020
gtat						1024

<210> 83  
 <211> 1889  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1859)..(1859)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1864)..(1864)  
 <223> n equals a,t,g, or c

<400> 83						
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gcatttatgg	tgaaaacagt	ctttgctcat	tgctttctct	tgtttcattt	agtgacaaat	120
gatcaagatg	acttgatttt	ttttccttct	taacaatgtc	ttttttat	aaaccaaagg	180
tgaagccagt	gtactttctc	agtgagttct	ctgcataaag	ataatcagt	gggaccagg	240
aaaaaggtca	tataatacat	tgtggagatt	gcttacttaa	tacttctgaa	aaatggagta	300
agggagaaac	tgtaatgttg	caatatgaac	ctccccattg	gccttccata	gggaaagctg	360
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cagttcattt	ctcttagagg	tgattacctc	tagccatcag	ccttactcca	tcccatgttt	480
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tttctgtcct	acagagccat	gataraactg	tggttagtga	gttaaaattc	ctggagtaac	600
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ctatatagct	taatgagact	tccaccccc	cccttttttt	tttttggttt	gttgttggtg	840
tagtagtctg	gtgctggcca	catttaagtc	ttaaaaattt	ttaaattttg	ytgttgatgt	900
ttgtagacag	ccctgttggt	gaaatcatgg	ctttattcat	tttatttatt	ttttaaactt	960
gcctgaattt	gttctaaagg	aatatttaag	agacataatt	ttcttctctt	taccataaca	1020
ttacacaaaa	ctttttccta	aaacacggtt	gtgagggtact	gatgagggtg	aagtggagct	1080
gttaaaaaaca	gcagtgtctg	attgyagtta	tgtatattcg	tgtacagtat	gtttagatcc	1140
caggtaaaca	tattcttttc	tgagaggata	aatacctgca	ttcagatatt	ccaggtaaat	1200
ataattgagt	cagggagtag	taaatctgat	ggagaattca	ctttggggag	gggaaaaaga	1260
atagtatgca	agacccttat	tggcttttaa	ttatacctga	aaccaaaatg	gatattttta	1320
gtctctctgc	atgtgagatt	tgggtgaaca	agatagaact	ataatatata	cagtatatgg	1380
aaggatagat	atagtgtctt	gttcatttta	attgcaaagc	tgccaaaata	gttgaagctt	1440
aattacttga	cttgccctga	tttataggac	tggggcttgg	agaaaatgag	cagatgttcc	1500
tctaagacat	cgattacaga	agccttatat	acatggattt	gattttgtat	ttgtagctga	1560
aagtcactgt	tgtctaaaac	taacttttct	aagttatcaa	aacaacctaa	tttcttttcc	1620
aacaaggaga	acttaatggc	atgaaggatt	gtgtgacaca	ttggaaaagc	cagctactg	1680
ccactctctt	cctttggcca	ttagagggag	gtgttgccct	tcattgacgc	ttagaagcaa	1740
attgttctact	tggttaagaaa	agtaaatcct	taaaaaaaaa	aaaaaaaaata	ccaatttttc	1800
ttaataccca	gaagggattt	tactcaatat	ttccctaggt	aaggaaagg	ggggttatnt	1860
tcncttaaa	acccaccgt	gtattacaa				1889



<210> 84  
 <211> 874  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (79)..(79)  
 <223> n equals a,t,g, or c

<400> 84  
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 ggcctcccca gccatgcana actcacgcac tcctggcttt aaagtttata cttgcatttg 120  
 ccatacctga taagccacgg catatccaga tgaaactagc cagactggaa tttgagtctt 180  
 tggaggcact caagcagcag caaatgaagc tcgtgaccga gaacctgaag gaggaaccaa 240  
 tggaaagcgg gaaggagaag gcaacctgag tgcccagcgt gccagctgc cctgttgcca 300  
 gaggcctgtg tctgtgccac acctgccacg gtggcagggg ggtaccgggg cagcatcgtg 360  
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<210> 85  
 <211> 2174  
 <212> DNA  
 <213> Homo sapiens

<400> 85  
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<210> 86  
 <211> 1282  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (907)..(907)  
 <223> n equals a,t,g, or c

<400> 86						
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<210> 87  
 <211> 1523  
 <212> DNA  
 <213> Homo sapiens

<400> 87						
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<210> 88

<211> 1768

<212> DNA

<213> Homo sapiens

<400> 88

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<210> 89  
 <211> 1131  
 <212> DNA  
 <213> Homo sapiens

<400> 89						
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<210> 90  
 <211> 1915  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (490)..(490)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1899)..(1899)  
 <223> n equals a,t,g, or c

<400> 90						
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<210> 91  
 <211> 1160  
 <212> DNA  
 <213> Homo sapiens

<400> 91						
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aaaaaaaaaa	aaaaaaaaaa					1160

<210> 92  
 <211> 1594  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1090)..(1090)

<223> n equals a,t,g, or c

<400> 92

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<210> 93

<211> 2078

<212> DNA

<213> Homo sapiens

<400> 93

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<210> 94  
 <211> 1992  
 <212> DNA  
 <213> Homo sapiens

<400> 94						
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <211> 1827  
 <212> DNA  
 <213> Homo sapiens

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 <222> (601)..(601)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (918)..(918)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1825)..(1825)  
 <223> n equals a,t,g, or c

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 <211> 2731  
 <212> DNA  
 <213> Homo sapiens

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<220>  
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<210> 99  
 <211> 1346  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (291)..(291)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (421)..(421)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (423)..(423)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (425)..(425)  
 <223> n equals a,t,g, or c

<400> 99	
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gggggccttc	gcaggcttct
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ggcacggagt	ctctgccgtg
cagccctgag	caagtgccag
tggagcagct	caagagcgag
ncnangagac	ccggcagcac
gctacgagga	ccaactgaag
aggagtccgt	gcagaagcag
tgccggcacia	gaattgagat
cgagcgggag	aatgcagaca
tcagaccgtc	ttggagtcca
ctttgtgaca	gaccgggaca
gcaggtggct	gagaggcagc
tgccctcctc	acagtccaaa
gggtgtctgac	ctccctcccc
gtaggtctgg	attcctccag
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cgtggaaccg	gagatggagc
gcccggggcg	gcgccaaggc
ctgaaggcgt	ccgagcaccg
tttgggggaa	gattccgtgc
cacggtaaac	atattcataa
cccaggtcct	gtccctgccg

gctctgcaca	gccctgtagc	tctcccagca	cagagcaaac	ccacgttgta	cctgctgggc	960
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aagaaaaaaa	tggccaggcg	gtagtggctc	aggctgtaa	tcccagcatt	ttcggaggcg	1260
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ctctaccaa	aaaaaaaaaa	aaaaaa				1346

<210> 100  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<400> 100						
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ctagcagcaa	tgatgtacag	gtggatcttt	tttcacatta	acactaccag	ctgctccatg	180
gctatagtgc	ttaggaatat	ctcagaat	caaagatct	atcagctgca	atatctagga	240
gtcttgccaa	cacagagaca	cattcacatg	ctgaaaagag	catgagttga	aggcacagct	300
ggggactttt	gatgcaggtc	cagaactgga	tggttgtgaa	gccattagag	atatttaa	360
tgtccagaat	ttcaggctct	gctttaaaaa	ctaggctaca	aaccctcatt	cagaaagagg	420
tcagtaatat	gcctgtgagt	tagaaagata	ctggaaacat	ttcaatgcca	aaagtaacat	480
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<210> 101  
 <211> 1898  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (265)..(265)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1854)..(1854)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1859)..(1859)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1888)..(1888)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1897)..(1897)  
 <223> n equals a,t,g, or c

<400> 101						
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tcggggctcg	tgtgaagact	gctgaccggt	ggtaccggga	aggactgcga	accttagatg	120
acctccgaga	gcagccccag	aaactaacc	aacagcagaa	agcggggctc	cagcaccacc	180
aggacctgag	caccccgatc	ctgcggtccg	atgtagatgc	cctgcagcag	gtggtggagg	240
aagctgtggg	gcaggccctg	ctggngccac	cgtcacgctg	accggcgggt	tcgcagggc	300
ctcatcctgt	accaccagca	ccagcacagc	tretgtrgt	cccctaccgc	cctggcccaa	360
caragccaca	tggacgcttt	tragagaagt	ttctgcattt	tccgcctacc	acaacctcca	420
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cctgggcctt	gagtaccttc	ctccagagca	gaaaacgcc	tgagcctgcc	tgtktcccc	780
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cagtaaaaaa	aaaaaaaaaa	aaaaaggcg	gccgctttaa	aaggatcctt	cganggggnc	1860
ccaagcttac	gccgggcatt	gccaacgnca	taacttnt			1898

<210> 102  
 <211> 1982  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (35)..(35)  
 <223> n equals a,t,g, or c

<400> 102						
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tttatattca	gggcacaagc	tgaatgggtg	gattggatat	ctgcagagaa	aattcaaaag	360
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gaaaacacag	tggagtgaat	ttaatggcat	tagagattat	cacaagagag	gaagtatgtg	780
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tgtacagttt	gttttatatc	tctttacttt	ttttgttact	attttatctg	gccagcgtaa	1860
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tcacaaaact	attaaactgt	ggtacattta	aaaaaaaaaa	aaaaaaaaaa	aaaaaactcg	1980
ag						1982

<210> 103  
 <211> 3034  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<400> 103	
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tggaagaagt	attcctgagg
ggaatgtcta	catttccctt
cattagttga	ccattgttta
atttttctag	gaaaagttaa
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agaaaggaaa	agacgaagg
aagaagaaag	agaagtcgtt
cagcaggtct	cgggaccaca
agatcgacga	agaagcagaa
ggatcgaaga	agatcaaaaa
ggacagagaa	caagatagaa
aagtagtgtg	aagtcgggta
ggaaagtgrt	actaagaatg
gctktaagta	tgcacagatg
cttctgaagg	aaaagacagt
agctattttg	tagcagactc
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gagccactgc	gctcggccag
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ttgggtctaca	gataacttca
ttgcataaga	atccaacttg
gatcgtgatg	agcgtctaaa
gagagagaaa	gggaagaaag
gaaagggctc	gtgacagaga
cgaacatcag	acagagatg
agaaggcgga	gcagaagtag
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tttctttgtc	aaggatgttt

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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	cgag			3034

<210> 104  
 <211> 2008  
 <212> DNA  
 <213> Homo sapiens

<400> 104						
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aaaaaaaaagt	tttgccttat	aggtcgac				2008

<210> 105  
 <211> 5061  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <211> 1980  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
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 <223> n equals a,t,g, or c

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<210> 111  
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 <213> Homo sapiens

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 aggattcagt caaactaagc aggtactcat gccaggtact cctttctcta cccacatcca 360  
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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 <211> 1534  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 115  
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (37)..(37)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (75)..(75)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (97)..(97)
<223> n equals a,t,g, or c

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<220>

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<221> misc\_feature  
 <222> (108)..(108)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (202)..(202)  
 <223> n equals a,t,g, or c

<400> 116  
 tgggaggttc ttttataagc agngctcggt tagtganccg tagatcgcc tggagacgcc 60  
 atccacgctg ttttnacctc catagaagcc accgggnccg atccagcntc cggactctag 120  
 cctaggccgc gggacggata acaatttcac acaggaaaca gctatgacca ctaggctttt 180  
 gcaaaaagct atttaggtga cncatataga ggtacgcctg caggtagccg tccggaattc 240  
 ccgggtcgac ccacgcgtcc gccctgggga gcttggttct caccagcaac gaaactcaga 300  
 cagcaatgga tgacttttct ctggctgacg tggcctggaa cacgatggag tctcagttca 360  
 gctctgtaga aaccagact tctgcggaac cacacacagt ctccaacttc taaaactaac 420  
 ggtggagtcc atgtgtgaaa tggcatctac catttctct ggattaaaac tacggactgg 480  
 ggacaacagt attaatcga ttgaatgtgg ctgatgatgc agttgcttag cttctttgtg 540  
 tttctttgcc ttttgtactt gtaaacagaa atttgcgtat aaatgtgagt gtattataaa 600  
 gtttgagatg ttgatctaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660  
 aaaaaaaaaa 669

<210> 117  
 <211> 1252  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (243)..(243)  
 <223> n equals a,t,g, or c

<400> 117  
 gagaagaagt actactccaa aaacttttgt aagtgttta ttcttccta gcagtaggct 60  
 gttgctgagt tgtagactgg tggttttatg aaaaaaaaaa aggttgggga ggtgtgaaga 120  
 tggaaaatgag ggctgtgtta tgtatatctg gtatctactt ctgttccagg tgcttaattc 180  
 accctcatag tgatgtttaa agttagagga ttcttgtcca ttgtcttctg cttctgttgg 240  
 canggtcaca tgcaggtaat aggctatggg aaggggaaga tgcctagatt acttctaggc 300  
 tggctctcaa gcccgaagt caagcctcct gagtagctga gactacaggc acacaccatc 360  
 gttctcaact tttctttttt aacataggct agctagctcc caccttagcc ttctagacc 420  
 ctccattata attcttattc aattgcttg gcctccaaa gtgctggaat tacagggtgtg 480  
 agccactgca ccagctatt ttttctatat ttttatgtag ttcattgagg gtaataattt 540  
 tatcctacaa caaacatgta agttattgaa gaatttggga gttttatgat aatgctgtca 600  
 taaatataaaa aggtagggta agagggatcc aaatagagct cacttatatt gtcactgaa 660  
 ggcagtcacg ctgtgctgat agaattgtgg ctgacacttg atggagtgc gcatatgtat 720  
 acttgggcaa tttgagcaga tatatacggg cccgagttta aagaagagaa caaacaccag 780  
 tgcacagcta tagtattcct aatataggat gcatttttaa gaatttcaca ttctacaaat 840  
 ggagagagat ggcaggagaa gcttattttt aagtcctgca ctaaggcagg ttaacctcat 900  
 ggggtgaatt acctggacct ttttgtaagg acaaaatatt taatcattaa aaggccctct 960  
 gtagggtttg aaatatctat ttttatata tgaatgcttc ttttattaat atttatggta 1020  
 agatattttt tactgtctgat aaacggacat taatgatata tagcctattg ttgaaaaaa 1080  
 gcatttttga ttatagccca aaactggaaa taaccaacag ataaataaat ggtgggtatat 1140  
 tcatacaata aaatactact cagataaaaa agatgaactt aatctcataa acattatggg 1200  
 caacatagtg agaaccatc tcttttaaaa aaaaaaaaaa aaaaaactcg aa 1252

<210> 118

<211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 118  
 Leu Leu Gly Thr Trp Leu Cys Pro Gln Leu Pro Pro Gly Leu Gly Ala  
   1                  5                  10                  15  
 His His Ala Pro Ser Ser Phe Ser Ser Tyr Leu Cys Pro Val Ser Pro  
                   20                  25                  30  
 Ser Ile Arg Leu Ser Asp Gly Thr Leu Trp Glu Arg Leu Trp Pro Trp  
           35                  40                  45  
 Ser Gly Gly Arg Glu Gln Gly Gly Arg His Lys  
       50                  55

<210> 119  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 119  
 Met Ser Cys Pro Ala His Ala Ser Pro Pro Cys Ser Asn Thr Ser Gly  
   1                  5                  10                  15  
 Cys Leu Glu Phe Ser Phe Cys Gly Phe Ala Leu Pro Ile Pro Ser Pro  
                   20                  25                  30  
 Val Leu His Ser Ser Trp Gln Gly Gly Glu Gly Trp Gly Trp Phe Gly  
           35                  40                  45  
 Trp Val Arg Gly Phe Phe Leu Cys Val Arg Cys Cys Tyr Leu Thr Val  
       50                  55                  60  
 Leu Arg Pro Tyr Trp Pro Phe Ser Ser Ser Ser Tyr Leu Tyr Gly Thr  
       65                  70                  75                  80  
 Ser Asn Lys Asp Thr His Phe Arg Pro Gly Lys Lys Lys Lys Lys Lys  
                   85                  90                  95  
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
           100                  105                  110  
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
           115                  120                  125  
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
       130                  135

<210> 120  
 <211> 30  
 <212> PRT

<213> Homo sapiens

<400> 120

Met Leu Met Met Gly Thr Leu Val Leu Ile Leu Leu His Asp Val Ile  
1 5 10 15

Val Thr Phe Thr Glu Phe Tyr Asn Ala Gln Asn Leu Lys Trp  
20 25 30

<210> 121

<211> 23

<212> PRT

<213> Homo sapiens

<400> 121

Cys Leu Gln Trp Phe Val Pro Leu Val Pro Gln Gln Ile Pro Glu Leu  
1 5 10 15

Ile Leu Met Thr Ile Trp Lys  
20

<210> 122

<211> 20

<212> PRT

<213> Homo sapiens

<400> 122

Phe Leu Leu Ser Phe Cys Ala Phe Pro Gln Val Phe Met Phe Trp Val  
1 5 10 15

Ser Val Leu His  
20

<210> 123

<211> 21

<212> PRT

<213> Homo sapiens

<400> 123

Met Ile Tyr Leu Ser Ile Tyr Leu Leu Val Asn Ile Leu Ala ValSer  
1 5 10 15

Asn Ser Trp Pro Ser  
20

<210> 124

<211> 9

<212> PRT

<213> Homo sapiens

<400> 124  
 Met Phe Met Met Ser Val Tyr Ile Leu  
           1                          5

<210> 125  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 125  
 Met Thr Arg Cys Leu Trp Arg Thr Leu Gln  
           1                          5                          10

<210> 126  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 126  
 Met Phe Cys Gly Ala Cys Gln Ile Gly Trp Asn Leu Trp Gly Leu Leu  
           1                          5                          10                          15  
 Trp Glu Met Pro Arg Glu His Arg Phe Arg Arg Trp Glu Gln Leu Val  
                           20                          25                          30

<210> 127  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 127  
 Met Ser Val Leu Leu Leu Ser Ser Ser Cys Gly Ala Ala Phe Ala Val  
           1                          5                          10                          15  
 Leu Cys Pro Pro His Cys Glu  
                           20

<210> 128  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 128  
 Gly Trp Phe His Leu Phe Trp Gln Glu Trp Glu Gln Glu Pro Gly Gln  
           1                          5                          10                          15

Asn Lys Leu Leu Glu Ala Leu Val Leu Gly Thr Ala Ala Gly Arg Val  
                   20                  25                  30

Gly Thr Arg Gln Asn Cys Leu Gln Asp Glu Ser Gln Glu Arg Thr Leu  
                   35                  40                  45

Ser Pro Val Ser Gly Val Trp Leu  
           50                  55

<210> 129  
 <211> 3  
 <212> PRT  
 <213> Homo sapiens

<400> 129  
 Gly Tyr Ser  
   1

<210> 130  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 130  
 Met Tyr Ala Phe Leu Gln Gly Phe Ile Phe Leu Leu Leu Phe Phe Phe  
   1                  5                  10                  15

Ile Ala Glu

<210> 131  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 131  
 Gly Ala  
   1

<210> 132  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 132  
 Met Ile Ser Met Cys Gln Met Leu Arg Thr Thr Val Met Thr His Leu  
   1                  5                  10                  15

Trp Ile Val Thr Trp Ile Gln Arg Ser Trp Gln Glu Ser Gly Asp Ile  
20 25 30

Arg Val

<210> 133  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 133  
Met Ala Arg Asn Val Trp Phe Phe Ile Val Ser Phe Cys Tyr Lys Phe  
1 5 10 15

Leu Ser Tyr Phe Arg Ala Ser Ser Thr Leu Lys Val  
20 25

<210> 134  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 134  
Met Leu Ala Trp Gln His Phe Gln Ile Ala Phe Cys Leu Leu Gly Ser  
1 5 10 15

Trp Gly Phe Gly Gly Arg Gly Ser Ile Ser Thr Leu His Glu Ile Ala  
20 25 30

Tyr Phe Ile Met Met Glu Leu Leu Phe Leu Leu Ser Cys Asp Phe Phe  
35 40 45

Phe

<210> 135  
<211> 1  
<212> PRT  
<213> Homo sapiens

<400> 135  
Ile  
1

<210> 136  
<211> 71  
<212> PRT  
<213> Homo sapiens

<400> 136

Met Val Gln His Lys Thr Thr Phe Gln Val Leu Phe Leu Phe Gly Val  
1 5 10 15  
Ser Phe Gln Val Phe Lys Cys Ile Ser Gln Pro Glu His Leu Phe Asn  
20 25 30  
His Ile His Gly Ser Leu Leu Asn Ala Glu Leu Leu His Met Leu Asp  
35 40 45  
Leu Lys Ile Ile Ile Ile Glu Glu Thr Ile Gly Leu Val Val Pro Arg  
50 55 60  
Lys Val Ser Asp Val Tyr Val  
65 70

<210> 137

<211> 55

<212> PRT

<213> Homo sapiens

<400> 137

Met Trp Ala Leu Lys Ser Leu Phe Leu Leu Thr Pro Ser Pro Val Ile  
1 5 10 15  
Arg Phe Tyr Phe Ala Ala Leu Trp Ile Arg Ala Ala Gly Arg Leu Leu  
20 25 30  
Gly Gly Gly Gly Ser Pro Thr Pro Pro Thr Ser Leu Ala Pro Gly Phe  
35 40 45  
Ser Glu Ala Gly Gly Leu Cys  
50 55

<210> 138

<211> 265

<212> PRT

<213> Homo sapiens

<400> 138

Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp  
1 5 10 15  
Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr  
20 25 30  
Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala  
35 40 45  
Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu  
50 55 60



Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile  
 65 70 75 80  
 Leu Gln Gly Leu Val Asp Val Arg Ile Pro HisAsn Asn Phe Tyr Arg  
 85 90 95  
 Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His  
 100 105 110  
 Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln IleIle Trp Gly Lys  
 115 120 125  
 Gln Asp Ala Gly Ala Gly Cys Val Trp Gly Arg His Val Gly Gln Val  
 130 135 140  
 Asn Cys Gln Leu Pro Gly Gly Ala Ser Gly Lys Leu Trp Ala Leu Ser  
 145 150 155 160  
 Ser Asp Gly Lys Thr Gln Glu Asp Ser Gln Ala His Asn Arg Leu Phe  
 165 170 175  
 Ser Phe Cys Ala Gln His Arg Gln Gln Gln Glu Ala Gly Leu Arg Pro  
 180 185 190  
 Arg Leu Gln Pro Ala Phe Cys Thr Gln His Leu Leu Pro Ser Pro Lys  
 195 200 205  
 Ser Asp Ala Ala Thr Thr Leu Arg Asp Pro Ala Pro Asn Ala Val Gly  
 210 215 220  
 Ala Pro Val Thr Leu Arg Lys Pro Val Pro Tyr Pro Trp Tyr Pro Arg  
 225 230 235 240  
 Phe Pro Arg Ala Leu Gly Thr Thr Arg Lys Pro Pro Arg Tyr Phe Ser  
 245 250 255  
 Gln Asn Arg Asn Ser Tyr Gly Thr Lys  
 260 265

<210> 139  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 139  
 Met Leu Cys Val Leu Val Leu Phe Ile Leu Tyr Leu Pro Gly Phe Ser  
 1 5 10 15  
 Lys Ser Asn Gln Asp Val Pro Trp Gly Asp Ile Leu Cys  
 20 25

<210> 140  
 <211> 5

<212> PRT  
<213> Homo sapiens

<400> 140  
Trp Ala Ser Leu Thr  
1 5

<210> 141  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 141  
Met Lys Pro Ser Trp Gln Leu Pro Ser Cys Ala  
1 5 10

<210> 142  
<211> 120  
<212> PRT  
<213> Homo sapiens

<400> 142  
Met Met Cys Val Val Leu Thr Thr Leu Pro Cys Leu Thr Phe Ser Ile  
1 5 10 15  
Ala Val Thr Glu Val Gln Lys Ser Ile Asn Gly Ser Ala Asp Val Leu  
20 25 30  
Pro Asp Met Leu Pro Asp Leu Pro Val Ser Leu Val Leu Leu Ser Leu  
35 40 45  
Ile Met Val Asp Ile Ile Glu Lys Leu Arg Ile Tyr Pro Leu Arg Gly  
50 55 60  
Ser Gln Lys Ser Lys Cys Ser Phe Lys CysGlu Tyr Phe Leu Lys Phe  
65 70 75 80  
Asp Ile Phe Phe Thr Phe Leu Pro Leu Cys Tyr Leu Thr Thr Cys Leu  
85 90 95  
Met Ile Pro Phe Leu Arg Ala Asn IleThr Asp Arg Arg Leu Gln Met  
100 105 110  
Lys Ile Ser Lys His Asn Tyr Phe  
115 120

<210> 143  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 143  
 Met Gln Val Phe Glu Phe Phe  
     1                    5

<210> 144  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 144  
 Met Arg Ser Val Pro Ala Ile Leu Gln Met Leu Trp Ile Leu Arg Arg  
     1                    5                    10                    15  
 Ser Thr Asn Trp Thr Leu Tyr Leu Ile Leu His Gly Cys Pro Ala Val  
                     20                    25                    30  
 Val Cys Ala Trp Pro Arg Gln His Ala Pro Trp Gly Met Val Arg Leu  
                     35                    40                    45  
 Trp Val Pro Thr Ala Ala Pro Ala Ala Leu Ser Pro  
     50                    55                    60

<210> 145  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 145  
 Met Ala Phe Leu Pro Ser Pro Ala Trp Trp Ile Ser Leu Leu Pro Ser  
     1                    5                    10                    15  
 Leu Leu Ser Ile Ala Arg Ser  
                     20

<210> 146  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 146  
 Met Leu Leu Leu Ser Ile Val Leu Leu Leu Ile Leu  
     1                    5                    10

<210> 147  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 147

Met Gly Phe His Leu Leu Leu Gly Leu Val Asn Leu Leu Gly Leu Val  
 1 5 10 15  
 Asn Cys Phe Leu Leu Gly Lys Pro Asn Tyr Leu Ser Leu Ile Val Ser  
 20 25 30  
 Ile Val Ala Pro Leu Thr Phe Leu Phe Ser Phe Ile Ser Asn Ile Lys  
 35 40 45  
 Lys Lys Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser  
 50 55 60

<210> 148  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 148  
 Glu Ala Phe Cys Phe Leu Arg Ser Tyr Phe Cys Tyr Ser Cys Asn Ala  
 1 5 10 15  
 Pro Pro Tyr Met Pro His Leu Cys Glu Ser Thr Gly Ile Arg Phe Gly  
 20 25 30  
 His His Thr Cys Leu Lys Leu Gly Ser Val Cys Ser Val Phe Cys Val  
 35 40 45  
 Glu Trp Arg Lys Lys Arg Leu Pro Cys Cys Leu Pro Cys Ser  
 50 55 60

<210> 149  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 149  
 Met Arg Trp Asn Leu Leu Leu Val Lys Leu Leu  
 1 5 10

<210> 150  
 <211> 235  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (204)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 150  
 Met Gly Leu Pro Gly Leu Phe Cys Leu Ala Val Leu Ala Ala Ser Ser

1	5	10	15
Phe Ser Lys Ala Arg Glu Glu Glu Ile Thr ProVal Val Ser Ile Ala	20	25	30
Tyr Lys Val Leu Glu Val Phe Pro Lys Gly Arg Trp Val Leu Ile Thr	35	40	45
Cys Cys Ala Pro Gln Pro Pro Pro Ile Thr Tyr Ser LeuCys Gly	50	55	60
Thr Lys Asn Ile Lys Val Ala Lys Lys Val Val Lys Thr His Glu Pro	65	70	75
Ala Ser Phe Asn Leu Asn Val Thr Leu Lys Ser Ser Pro Asp Leu Leu	85	90	95
Thr Tyr Phe Cys Arg Ala Ser Ser Thr Ser Gly Ala His Val Asp Ser	100	105	110
Ala Arg Leu Gln Met His Trp Glu Leu Trp Ser Arg Gln Arg Gly Arg	115	120	125
Pro Gln Gly Gly Asp Asp Leu Pro Gly Val Leu Gly Gln Pro Thr Tyr	130	135	140
His Gln Gln Pro Asp Arg Glu Gly Trp Ala Gly Pro Pro Ala Ala Glu	145	150	155
Thr Met Pro Gln Ala Ala Cys Gln Leu Leu Leu Pro Ala Glu Pro Asp	165	170	175
Ile Gly Leu Val Leu Val Pro Gly Cys Lys Gln Arg Gln Cys Pro Ala	180	185	190
Gln Arg Pro His Ser Gly Ala Pro Arg Arg Val Xaa Gln Gly Thr His	195	200	205
His Arg Ala Gly Trp Gln Pro Cys Leu His Cys Gly His His Leu Gln	210	215	220
Asp Ala Gly Leu Asp Pro Arg Gly Pro Arg Trp	225	230	235

<210> 151  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 151  
 Met His Phe His Ala Asp Tyr Met His Gly Cys  
 1 5 10

<210> 152  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 152  
Met Arg Gln Gln Gln Thr His Leu Ala Ala Gly Val Leu Phe Cys Cys  
1 5 10 15  
Arg Leu Thr Phe Ser Ser Ser Val Ser Gly LysSer Gly  
20 25

<210> 153  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 153  
Leu Glu Ala Pro Ser Met Lys Thr Asp Thr Arg Thr Ile Phe Val Ala  
1 5 10 15  
Ile Phe Ser Cys Ile Ser Ile Leu Leu Leu Phe Leu Ser Val Phe Ile  
20 25 30  
Ile Tyr Arg Cys Ser Gln His Gly Glu Leu Arg Glu Arg Lys Gly Arg  
35 40 45  
Glu Gly Glu  
50

<210> 154  
<211> 2  
<212> PRT  
<213> Homo sapiens

<400> 154  
Asp Ile  
1

<210> 155  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 155  
Met Asn Val Ile Ile Val Leu Val His Ala Leu Cys Pro Trp Cys Arg  
1 5 10 15  
Gly Cys Pro His Trp Gly Pro Leu Val Pro Pro  
20 25

<210> 156  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 156  
 Met Val Lys Thr Val Ile Trp Gly His His Gln Met Met Trp Thr Phe  
           1                  5                          10                          15  
 Leu Gln Val Phe Trp His Thr Gln Ala Ser Cys His Trp Cys Ile Phe  
                   20                          25                          30  
 Gln Leu Thr Ser Gly Asp Asp Arg Asn Ser Leu Gln Gly Leu Ser Ile  
                   35                          40                          45  
 Trp Asp Gly Tyr Ile Lys Arg Glu Thr Asn Trp Ser Lys Ser Pro Glu  
           50                          55                          60  
 Arg Lys Ser His Ser Thr Asp Leu Ala Ser Val Leu Lys Asn Ser Asn  
           65                          70                          75                          80  
 Tyr Ile

<210> 157  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 157  
 Met Ala His Trp His Val Phe Tyr Val Phe Ser Cys His Ser  
           1                  5                          10

<210> 158  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 158  
 Met Leu Pro Pro Leu Leu Glu Trp Ala Val Phe Val Pro Leu Ser Gln  
           1                  5                          10                          15  
 Leu Leu Leu

<210> 159  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 159

Ile Asn Ser Trp Lys Arg Pro Val Asn Ala Ser Cys Phe Cys Ile Cys  
1 5 10 15

Val Leu Arg Trp Ala Leu Trp Phe Leu Cys Thr Gln Ser Thr Phe Leu  
20 25 30

Val Ile Thr Ile Val Ile Phe Ile Val Met Thr Ala Pro Glu Leu Trp  
35 40 45

<210> 160

<211> 26

<212> PRT

<213> Homo sapiens

<400> 160

Gly Gln Leu Arg Trp Ser Ser Leu Val Ser Gln Phe Ala Cys Leu Phe  
1 5 10 15

Ile Leu Phe Ser Ala Lys Cys Ile Pro Phe  
20 25

<210> 161

<211> 1

<212> PRT

<213> Homo sapiens

<400> 161

Phe  
1

<210> 162

<211> 24

<212> PRT

<213> Homo sapiens

<400> 162

Met Ser Ile Trp Leu Met His Phe Cys Leu Leu Val Leu Gly Lys Arg  
1 5 10 15

Met Ser Ile Leu Asp Val Lys Leu  
20

<210> 163

<211> 36



<212> PRT  
<213> Homo sapiens

<400> 163  
Met Phe Cys His Cys Ile Val Cys Leu Leu Leu Val Leu Trp Ser Ser  
1 5 10 15  
Leu Pro Phe Phe Ile Pro Ser Phe Leu Leu Leu Lys Val Ile Leu Ser  
20 25 30  
Cys Gly Met Ile  
35

<210> 164  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 164  
Asp Gln Phe Ser Thr Ala Val Arg His Arg Val Pro Ala Gly His Trp  
1 5 10 15  
Gln Val Ala Gly Ser Thr Pro Thr Pro Cys Pro Xaa Asn Pro Asp Leu  
20 25 30  
Xaa Pro Gly Lys Glu Arg Glu Gly Pro Val Ser  
35 40

<210> 165  
<211> 281  
<212> PRT  
<213> Homo sapiens

<400> 165  
Met Ala Glu Ala Leu Leu Leu Arg Ala Thr Phe Tyr LeuLeu Ile Gly  
1 5 10 15  
Asn Ala Asn Ala Ala Lys Pro Asp Leu Asp Lys Val Ile Ser Leu Lys  
20 25 30  
Glu Ala Asn Val Lys Leu Arg Ala Asn Ala Leu Ile Lys ArgGly Ser  
35 40 45

Met Tyr Met Gln Gln Gln Gln Pro Leu Leu Ser Thr Gln Asp Phe Asn  
 50 55 60  
 Met Ala Ala Asp Ile Asp Pro Gln Asn Ala Asp Val Tyr His His Arg  
 65 70 75 80  
 Gly Gln Leu Lys Ile Leu Leu Asp Gln Val Glu Glu Ala Val Ala Asp  
 85 90 95  
 Phe Asp Glu Cys Ile Arg Leu Arg Pro Glu Ser Ala Leu Ala Gln Ala  
 100 105 110  
 Gln Lys Cys Phe Ala Leu Tyr Arg Gln Ala Tyr Thr Gly Asn Asn Ser  
 115 120 125  
 Ser Gln Ile Gln Ala Ala Met Lys Gly Phe Glu Glu Val Ile Lys Lys  
 130 135 140  
 Phe Pro Arg Cys Ala Glu Gly Tyr Ala Leu Tyr Ala Gln Ala Leu Thr  
 145 150 155 160  
 Asp Gln Gln Gln Phe Gly Lys Ala Asp Glu Met Tyr Asp Lys Cys Ile  
 165 170 175  
 Asp Leu Glu Pro Asp Asn Ala Thr Thr Tyr Val His Lys Gly Leu Leu  
 180 185 190  
 Gln Leu Gln Trp Lys Gln Asp Leu Asp Arg Gly Leu Glu Leu Ile Ser  
 195 200 205  
 Lys Ala Ile Glu Ile Asp Asn Lys Cys Asp Phe Ala Tyr Glu Thr Met  
 210 215 220  
 Gly Thr Ile Glu Val Gln Arg Gly Asn Met Glu Lys Ala Ile Asp Met  
 225 230 235 240  
 Phe Asn Lys Ala Ile Asn Leu Ala Lys Ser Glu Met Glu Met Ala His  
 245 250 255  
 Leu Tyr Ser Leu Cys Asp Ala Ala His Ala Gln Thr Glu Val Ala Lys  
 260 265 270  
 Lys Tyr Gly Leu Lys Pro Pro Thr Leu  
 275 280

<210> 166  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 166  
 Met Leu Tyr Phe Leu Val Gln Leu Leu Thr Val Leu Ser Leu Leu Ser  
 1 5 10 15  
 Gly Met Ser Phe Leu Ile Arg Arg Gln Glu Glu Asn Lys Asn Gln Thr



1 5 10 15  
Val Thr Pro Ser Gln Thr Leu Lys Gly Pro Pro Leu Ser Trp Ser  
20 25 30

<210> 170  
<211> 65  
<212> PRT  
<213> Homo sapiens

<400> 170  
Gly Ser Phe Pro Ser Pro Lys His Arg Gln Arg Gly Gly Glu Gln Phe  
1 5 10 15  
Leu Val Leu Phe Leu Phe Leu Lys Trp Cys Leu Tyr Leu Gln Pro Pro  
20 25 30  
Gly Gly Leu Pro Trp Pro His Phe Ser Ala Pro Pro Arg His Arg His  
35 40 45  
Pro Ser Thr Leu Leu His Val Thr Arg Lys Met Pro Phe Ala Glu Cys  
50 55 60  
Thr  
65

<210> 171  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 171  
Met Phe Leu Cys Cys Gln Ile Gly Pro Leu Gly Pro Phe Arg Phe Cys  
1 5 10 15  
Phe Leu Gly Ala Gly Phe Leu Pro Trp Thr Pro Ser Leu Gly Thr Val  
20 25 30  
Asp Ile Lys Cys Leu Ala  
35

<210> 172  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 172  
Met Phe Tyr Trp Gly Gly Leu Ser Phe Tyr Phe Leu Leu Ser Ser Gly  
1 5 10 15  
Val Gly Phe Tyr Cys Phe Leu Phe Gly Phe Gly Met Glu Ile Trp Ile

	20	25	30
--	----	----	----

Ala Ala

  

<210> 173  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

  

<400> 173  
 Met Leu Ile Ile Thr Pro Lys Leu Lys Lys Val Gly Ser Gln Pro Gln  
           1                  5                  10                  15  
 Met Glu Asp Trp Ala Pro Leu Leu Pro Ser Ser Ala Ser Leu Leu Pro  
                   20                  25                  30

  

<210> 174  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

  

<400> 174  
 Pro Ala Arg Leu Leu Pro Pro Gly Pro Ala Val Ala Leu Leu Leu  
           1                  5                  10                  15  
 Arg Gly Ser Cys Ser Leu Cys Cys Cys His Gln Pro His Lys Ala Ser  
                   20                  25                  30  
 Cys Lys Ala Met Pro Ser Ala Gly Ser Asn Val Pro  
           35                  40

  

<210> 175  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

  

<400> 175  
 His Arg Ala Val Ile Leu Ala Leu  
           1                  5

  

<210> 176  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 176

Met Ala Ala Ala Lys Ala Leu Ile Ser Leu Trp Leu Val Ser Ala Cys  
1 5 10 15

Gly Gln Trp Glu Thr Ser Phe Pro Ile Tyr Gly Gly Asp Met Glu Cys  
20 25 30

Gln Ala Val Val Phe Trp Trp Leu Glu Glu Glu Arg Lys  
35 40 45

<210> 177

<211> 34

<212> PRT

<213> Homo sapiens

<400> 177

Met Gln Cys Pro Tyr Leu Leu Gly Ala Gln Leu Leu Val Ser Ser Ile  
1 5 10 15

Cys Pro Val Val Pro Ala Leu Pro Arg Pro Val Asn Lys Cys Leu Val  
20 25 30

Pro Asp

<210> 178

<211> 39

<212> PRT

<213> Homo sapiens

<400> 178

Met Ser Glu Ala Gly Trp Trp Ala Trp Leu Phe Val Ile Leu His Pro  
1 5 10 15

Phe Gly Met Pro Asp Thr Phe His Asn Asn Phe Lys Lys Asp Lys Thr  
20 25 30

Thr Ala Glu Lys Cys Ile Glu  
35

<210> 179

<211> 10

<212> PRT

<213> Homo sapiens

<400> 179

Met Gly Val Gly Leu Leu Asn Arg Ile Ile  
1 5 10

<210> 180  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 180  
 Leu Phe Trp Ser Val Ser Glu Thr Gly Ile Ala Phe Gly Val Ser Arg  
   1                  5                  10                  15  
 Val Leu Gly Met Leu Glu Gly His Leu Gln Glu Ala Trp Gly Arg Arg  
                   20                  25                  30  
 Glu Ile Ser Cys Asp Ala Leu  
                   35

<210> 181  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 181  
 Ser Leu Lys Ile Phe Ser Val Ser Gly Val Leu Gln Gly Trp Pro Leu  
   1                  5                  10                  15  
 Ala Pro Glu Pro Leu Pro Gln Cys Ser His GlnPro Pro Pro His Pro  
                   20                  25                  30  
 Ser Val Cys Arg Ala Ser Ser Thr Gly Pro His Ala Ala Phe Phe Thr  
                   35                  40                  45  
 His Ser Ala Leu Gly Arg Phe Val Ile Trp Leu Ser Leu HisTrp Ala  
                   50                  55                  60  
 Glu Val Cys Val His Arg Val Gly Val Pro Ser Ser Pro Phe His Ser  
   65                  70                  75                  80  
 Glu Gly His Thr Gln Arg Cys Gln  
                   85

<210> 182  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 182  
 Met Glu Thr Pro Gln Leu Gln Val Gln Gly Gln Leu Leu His Leu Leu  
   1                  5                  10                  15  
 Leu Cys Leu Tyr His His Lys Val Val Gln Gln Lys Leu Leu Leu Leu  
                   20                  25                  30  
 Ile Leu Leu Lys Leu Leu Lys Val Thr Thr Leu Tyr Pro Met Glu Gln  
                   35                  40                  45

Ile Leu Gly Ser Phe His Gln Leu Glu Arg Ser Phe Ile Gly Ile Ile  
50 55 60

Leu Ser His Arg Leu Leu Arg Pro  
65 70

<210> 183  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 183  
Met Ser Gly Val Lys Leu Gln Leu Phe Gly Thr Arg Leu Ser Leu Pro  
1 5 10 15

Leu Ser Ser Tyr  
20

<210> 184  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 184  
Met Asn Ser Tyr Met Cys Ala Cys Val Phe Ser Ser Glu Ile His Leu  
1 5 10 15

Gly Gly Gly Phe Phe Cys Phe Phe Asn Ser Val Pro Asp Leu  
20 25 30

<210> 185  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 185  
Met Ala Leu Thr Leu Pro Ser Gln Trp Val Phe Leu ValPhe Ile Leu  
1 5 10 15

Asp Asp Leu Tyr Ala His Leu Ser Leu Ser Arg Asn Phe Cys Trp Lys  
20 25 30

His Leu Leu Phe  
35

<210> 186  
<211> 26  
<212> PRT



<213> Homo sapiens

<400> 186

Ile Phe Leu His Leu Leu Ser Cys Ser Leu Leu Phe Ala Trp Thr Asn  
1 5 10 15

Gly Glu Lys Ser Ala Gln Asn Glu Ile Met  
20 25

<210> 187

<211> 57

<212> PRT

<213> Homo sapiens

<400> 187

Trp Val Asp Trp Gln Arg Lys Trp Thr Thr Lys Phe Phe Met Leu Arg  
1 5 10 15

Ser Phe Leu Leu Glu Thr Ser Gln Ile Phe Arg Phe Leu Trp Ile Met  
20 25 30

Lys Gln Lys Ser Thr Glu Asp Leu Leu Leu Leu Asn Leu Ser Trp Gln  
35 40 45

Arg Met Leu Gln Gln Leu Ser Thr Thr  
50 55

<210> 188

<211> 27

<212> PRT

<213> Homo sapiens

<400> 188

Pro Ala Pro His Leu Pro Arg Leu Thr Leu Pro Cys Gln Val Val Trp  
1 5 10 15

Gly Pro Arg Cys Trp Gly Gly Glu Ser Gly Ser  
20 25

<210> 189

<211> 66

<212> PRT

<213> Homo sapiens

<400> 189

Asp Leu Leu Leu Leu Phe Cys Gly Asp Val Pro Cys Ser Leu Tyr Val  
1 5 10 15

Ser Ser His Val Cys Leu Cys Thr His Ile Ala Ser Cys Ala Val Phe  
20 25 30

Val Ser Leu Pro Leu Met Pro Ala Ser Gly Met Met Glu Arg Leu Trp  
                   35                  40                  45

Ser Arg Leu Arg Ile Met Thr Ala Tyr Lys Thr AspSer Thr Leu Thr  
           50                  55                  60

Gly Lys  
   65

<210> 190  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 190  
 Met Val Lys Thr Val Phe Ala His Cys Phe Leu Leu Phe His Leu Val  
   1                  5                  10                  15

Thr Asn Asp Gln Asp Asp Leu Ile Phe Phe Pro Ser  
                   20                  25

<210> 191  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 191  
 Met Leu Ser Gln Thr Asn Gly Ser His Val Ala Ser Thr Leu Leu Ser  
   1                  5                  10                  15

Phe Ala Val Ala Trp Leu Gly Ile Leu Gly Ser Ser Pro Ser Pro Thr  
                   20                  25                  30

Leu Ser Ala Pro Ser Gln Phe Leu Pro Gly Pro His Thr Leu Leu Gln  
           35                  40                  45

Leu Pro Thr Leu Leu Gln Ser His Cys Arg Pro  
   50                  55

<210> 192  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 192  
 Phe Val Cys Ile  
   1

<210> 193

<211> 323  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (217)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (226)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (229)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 193  
 Met Glu Leu Ser Lys Ala Phe Ser Gly Gln Arg Thr Leu Leu Ser Ala  
   1                  5                  10                  15  
 Ile Leu Ser Met Leu Ser Leu Ser Phe Ser Thr Thr Ser Leu Leu Ser  
                   20                  25                  30  
 Asn Tyr Trp Phe Val Gly Thr Gln Lys Val Pro Lys Pro Leu Cys Glu  
           35                  40                  45  
 Lys Gly Leu Ala Ala Lys Cys Phe Asp Met Pro Val Ser Leu Asp Gly  
   50                  55                  60  
 Asp Thr Asn Thr Ser Thr Gln Glu Val Val Gln Tyr Asn Trp Glu Thr  
   65                  70                  75                  80  
 Gly Asp Asp Arg Phe Ser Phe Arg Ser Phe Arg Ser Gly Met Trp Leu  
                   85                  90                  95  
 Ser Cys Glu Glu Thr Val Glu Glu Pro Gly Glu Arg Cys Arg Ser Phe  
           100                  105                  110  
 Ile Glu Leu Thr Pro Pro Ala Lys Arg Glu Asn Pro Met Val Ile Pro  
   115                  120                  125  
 Gly Asn Ala Asp His Leu His Arg Thr Ser Ile His Gln Leu Pro Pro  
   130                  135                  140  
 Ala Thr Asn Arg Leu Ala Thr His Trp Glu Pro Cys Leu Trp Ala Gln  
   145                  150                  155                  160  
 Thr Glu Arg Leu Cys Cys Cys Phe Leu Cys Pro Val Arg Ser Pro Gly  
           165                  170                  175  
 Asp Val Ala His Met Met Tyr Ser Gln Val Phe Gln Ala Thr Val Asn  
           180                  185                  190  
 Leu Gly Pro Glu Asp Trp Arg Pro His Val Trp Asn Tyr Gly Trp Ala

195	200	205
Phe Tyr Met Ala Cys Ser	Pro Ser Xaa Ala Ala	Trp Arg Arg Leu Ser
210	215	220
Pro Xaa Ser Thr Xaa Thr	Pro Gly Trp Cys Trp	Ser Ser Ser Ala Ser
225	230	235
Ile Val Lys Ser Phe Lys Glu Asn	Pro Asn Cys Leu Pro	His His His
245	250	255
Gln Cys Phe Pro Arg Arg Leu Ser	Ser Ala Ala Pro Thr	Val Gly Pro
260	265	270
Leu Thr Ser Tyr His Gln Tyr His	Asn Gln Pro Ile His	Ser Val Ser
275	280	285
Glu Gly Val Asp Phe Tyr Ser Glu	Leu Arg Asn Lys Gly	Phe Gln Arg
290	295	300
Gly Ala Ser Gln Glu Leu Lys Glu	Ala Val Arg Ser Ser	Val Glu Glu
305	310	315
Glu Gln Cys		

<210> 194  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 194  
 Met Ala Ala Met Arg His Leu Leu Arg Leu Phe Ser Gly Cys Gly Asp  
 1 5 10 15  
 Leu Gly Phe Leu Thr Leu Tyr Ile Phe Phe Leu Tyr Ser Lys Glu Asn  
 20 25 30  
 Asn Phe

<210> 195  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 195  
 Met Thr Ser Val Gln Gln Phe Cys Ile Tyr Ser Glu  
 1 5 10

<210> 196

<211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 196  
 Met Arg Gly Lys His Val Cys Leu Leu Leu Leu Leu Gly Arg Phe  
           1                  5                  10                  15

<210> 197  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 197  
 Met Ser His Phe Arg Pro Ala Arg Cys Leu Pro Gly Pro Cys Gln Thr  
           1                  5                  10                  15  
  
 Leu Leu Thr Phe Pro Leu Leu Val Cys Ala Gly Leu Arg Arg Pro Pro  
                   20                  25                  30  
  
 Arg Pro His Ser Thr Gln Pro Gly Ser Ser Cys Ser Pro Arg His Pro  
           35                  40                  45  
  
 Ser Phe Pro Ser Leu Ser Trp Val Met Leu Leu Pro Pro Cys Val Thr  
           50                  55                  60  
  
 Phe Glu Ala Val Lys  
           65

<210> 198  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 198  
 Met Trp Leu Ser Ala Phe Phe Leu Ala Arg Leu Ala Asp Ser Val Leu  
           1                  5                  10                  15  
  
 Glu Glu Ser Ile Ile  
                   20

<210> 199  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 199  
 Met Ser Thr Phe Leu Trp Asp Ile Gln Thr Thr Tyr Cys Phe

1 5 10

<210> 200  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 200  
 Leu Pro Arg Leu Gln Ser Ala Leu Leu Leu Leu Pro Leu Pro Pro Thr  
 1 5 10 15  
 Leu Gln Gly His Val Arg Ala Pro Ile Tyr Pro Pro Pro Ala Cys Arg  
 20 25 30  
 Ser

<210> 201  
 <211> 234  
 <212> PRT  
 <213> Homo sapiens

<400> 201  
 Lys Leu Leu Tyr Thr Thr Leu Arg His Pro Lys Cys Phe Leu Gln Arg  
 1 5 10 15  
 Leu Ser Leu Glu Asn Cys His Leu Thr Glu Ala Asn Cys Lys Asp Leu  
 20 25 30  
 Ala Ala Val Leu Val Val Ser Arg Glu Leu Thr His Leu Cys Leu Ala  
 35 40 45  
 Lys Asn Pro Ile Gly Asn Thr Gly Val Lys Phe Leu Cys Glu Gly Leu  
 50 55 60  
 Arg Tyr Pro Glu Cys Lys Leu Gln Thr Leu Val Leu Trp Asn Cys Asp  
 65 70 75 80  
 Ile Thr Ser Asp Gly Cys Cys Asp Leu Thr Lys Leu Leu Gln Glu Lys  
 85 90 95  
 Ser Ser Leu Leu Cys Leu Asp Leu Gly Leu Asn His Ile Gly Val Lys  
 100 105 110  
 Gly Met Lys Phe Leu Cys Glu Ala Leu Arg Lys Pro Leu Cys Asn Leu  
 115 120 125  
 Arg Cys Leu Trp Leu Trp Gly Cys Ser Ile Pro Pro Phe Ser Cys Glu  
 130 135 140  
 Asp Leu Cys Ser Ala Leu Ser Cys Asn Gln Ser Leu Val Thr Leu Asp  
 145 150 155 160



<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 205  
 Met Arg Ala Phe Ile Trp Thr Cys Gly Thr Trp Thr Leu Trp Ser Leu  
   1                  5                  10                  15  
 Ser Asp Arg Ser Leu Gly Ser Ser Arg Ile Cys Met Gly Phe Ala Gly  
                   20                  25                  30  
 Ser Leu Lys Arg Pro Gly Arg Thr Lys Ala Xaa Thr Thr Phe Trp Gly  
                   35                  40                  45  
 Thr Trp Phe  
           50

<210> 206  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 206  
 Met Gln Leu Glu Ala Leu Asn Leu Leu His Thr Leu Val Trp Ala Arg  
   1                  5                  10                  15  
 Ser Leu Cys Arg Ala Gly Ala Val Gln Thr Gln Glu Arg Leu Xaa Gly  
                   20                  25                  30  
 Ser Ala Ser Pro Glu Gln Val Pro Ala Gly Glu Cys Cys Ala Leu Gln  
                   35                  40                  45  
 Glu Tyr Glu Ala Ala Val Gly Ala Ala Gln Glu Arg Ala Asp Pro Gly  
   50                  55                  60  
 Ala Gly  
   65

<210> 207  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 207  
 Met Leu Leu Glu Lys Val Ile Arg Leu Arg Cys Ser Cys Phe Val Leu  
   1                  5                  10                  15



Leu Cys Phe Ser Leu Ser Trp Val Gly Val Ser Ser Ser Asn Asp Val  
 20 25 30

Gln Val Asp Leu Phe Ser His  
 35

<210> 208  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 208  
 Met Asn Gly Lys Trp Ser Leu Met Cys Ser Val Ser Leu Val Ala Leu  
 1 5 10 15

Gln Leu Thr Val Ala Pro Ala Gly His Pro Ala Gln Asn Ala Gln Lys  
 20 25 30

Arg Thr Met His Thr Cys Thr Ala Phe Glu Ser His Glu Leu Glu Ala  
 35 40 45

Val Val Arg Ala Ser Lys Glu Pro Thr Val Trp Cys Ala Val Gly Ile  
 50 55 60

Trp Arg Gly Arg Gly Pro Gly  
 65 70

<210> 209  
 <211> 327  
 <212> PRT  
 <213> Homo sapiens

<400> 209  
 Met Leu Ala Thr Ser Gln Ala Leu Asp Thr Val Trp Arg Met Ala Lys  
 1 5 10 15

Gly Phe Val Met Leu Ala Val Ser Phe Leu Val Ala Ala Ile Cys Tyr  
 20 25 30

Phe Arg Arg Leu His Leu Tyr Ser Gly His Lys Leu Lys Trp Trp Ile  
 35 40 45

Gly Tyr Leu Gln Arg Lys Phe Lys Arg Asn Leu Ser Val Glu Ala Glu  
 50 55 60

Val Asp Leu Leu Ser Tyr Cys Ala Arg Glu Trp Lys Gly Glu Thr Pro  
 65 70 75 80

Arg Asn Lys Leu Met Arg Lys Ala Tyr Glu Glu Leu Phe Trp Arg His  
 85 90 95

His Ile Lys Cys Val Arg Gln Val Arg Arg Asp Asn Tyr Asp Ala Leu

100					105					110					
Arg	Ser	Val	Leu	Phe	Gln	Ile	Phe	Ser	Gln	Gly	Ile	Ser	Phe	Pro	Ser
		115					120					125			
Trp	Met	Lys	Glu	Lys	Asp	Ile	Val	Lys	Leu	Pro	Glu	Lys	Leu	Leu	Phe
	130					135					140				
Ser	Gln	Gly	Cys	Asn	Trp	Ile	Gln	Gln	Tyr	Ser	Phe	Gly	Pro	Glu	Lys
145					150					155					160
Tyr	Thr	Gly	Ser	Asn	Val	Phe	Gly	Lys	Leu	Arg	Lys	Tyr	Val	Glu	Leu
				165					170					175	
Leu	Lys	Thr	Gln	Trp	Thr	Glu	Phe	Asn	Gly	Ile	Arg	Asp	Tyr	His	Lys
			180					185					190		
Arg	Gly	Ser	Met	Cys	Asn	Thr	Leu	Phe	Ser	Asp	Ala	Ile	Leu	Glu	Tyr
		195					200					205			
Lys	Leu	Tyr	Glu	Ala	Leu	Lys	Phe	Ile	Met	Leu	Tyr	Gln	Val	Thr	Glu
	210					215					220				
Val	Tyr	Glu	Gln	Met	Lys	Thr	Lys	Lys	Val	Ile	Pro	Ser	Leu	Phe	Arg
225					230					235					240
Leu	Leu	Phe	Ser	Arg	Glu	Thr	Ser	Ser	Asp	Pro	Leu	Ser	Phe	Met	Met
				245					250					255	
Asn	His	Leu	Asn	Ser	Val	Gly	Asp	Thr	Cys	Gly	Leu	Glu	Gln	Ile	Asp
			260					265					270		
Met	Phe	Ile	Leu	Gly	Tyr	Ser	Leu	Glu	Val	Lys	Ile	Lys	Val	Phe	Arg
		275					280					285			
Leu	Phe	Lys	Phe	Asn	Ser	Arg	Asp	Phe	Glu	Val	Cys	Tyr	Pro	Glu	Glu
	290					295					300				
Pro	Leu	Arg	Asp	Trp	Pro	Glu	Ile	Ser	Leu	Leu	Thr	Glu	Asn	Asp	Arg
305					310					315					320
His	Tyr	His	Ile	Pro	Val	Phe									
				325											

<210> 210

<211> 7

<212> PRT

<213> Homo sapiens

<400> 210

Met Phe Glu Cys Tyr Cys Leu

1

5

<210> 211  
 <211> 130  
 <212> PRT  
 <213> Homo sapiens

<400> 211  
 Met Tyr Gln Thr Pro Met Glu Val Ala Val Tyr Gln Leu His Asn Phe  
   1                  5                  10                  15  
 Ser Ile Ser Phe Phe Ser Ser Leu Leu Gly Gly Asp Val Val Ser Val  
                   20                  25                  30  
 Lys Leu Asp Asn Ser Ala Ser Gly Ala Ser Val Val Ala Ile Asp Asn  
           35                  40                  45  
 Lys Ile Glu Gln Ala Met Asp Leu Val Lys Asn His Leu Met Tyr Ala  
       50                  55                  60  
 Val Arg Glu Glu Val Glu Ile Leu Lys Glu Gln Ile Arg Glu Leu Val  
   65                  70                  75                  80  
 Glu Lys Asn Ser Gln Leu Glu Arg Glu Asn Thr Leu Leu Lys Thr Leu  
                   85                  90                  95  
 Ala Ser Pro Glu Gln Leu Glu Lys Phe Gln Ser Cys Leu Ser Pro Glu  
           100                  105                  110  
 Glu Pro Ala Pro Glu Ser Pro Gln Val Pro Glu Ala Pro Gly Gly Ser  
       115                  120                  125  
 Ala Val  
       130

<210> 212  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 212  
 Ala Leu Trp Leu Leu Leu Gln Leu Ser  
   1                  5

<210> 213  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 213  
 Met Trp Leu Met Met Gln Leu Leu Ser Phe Phe Val Phe Leu Cys Leu  
   1                  5                  10                  15  
 Leu Tyr Leu

<210> 214  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 214  
Met Phe Lys Val Arg Gly Phe Leu Ser Ile Cys Leu Val Phe Cys Trp  
1 5 10 15  
Gln Val Thr Cys Arg  
20

<210> 215  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 215  
Met Pro Trp Cys Leu Leu Pro Leu Cys Leu His Ile Leu Cys Val Ser  
1 5 10 15  
Ala

<210> 216  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 216  
Met Leu Ser Pro Ser Gln Thr Pro Gly Ser Cys Leu Lys Trp Ala Pro  
1 5 10 15  
Ser Trp Val Thr Arg Cys Thr Phe Trp Thr Leu Val Val Ala Ser Leu  
20 25 30  
Ala Gln Lys Gly Pro Lys  
35

<210> 217  
<211> 327  
<212> PRT  
<213> Homo sapiens

<400> 217  
Met Leu Ala Thr Ser Gln Ala Leu Asp Thr Val Trp Arg Met Ala Lys  
1 5 10 15

Gly	Phe	Val	Met	Leu	Ala	Val	Ser	Phe	Leu	Val	Ala	Ala	Ile	Cys	Tyr	20	25	30
Phe	Arg	Arg	Leu	His	Leu	Tyr	Ser	Gly	His	Lys	Leu	Lys	Trp	Trp	Ile	35	40	45
Gly	Tyr	Leu	Gln	Arg	Lys	Phe	Lys	Arg	Asn	Leu	Ser	Val	Glu	Ala	Glu	50	55	60
Val	Asp	Leu	Leu	Ser	Tyr	Cys	Ala	Arg	Glu	Trp	Lys	Gly	Glu	Thr	Pro	65	70	75
Arg	Asn	Lys	Leu	Met	Arg	Lys	Ala	Tyr	Glu	Glu	Leu	Phe	Trp	Arg	His	85	90	95
His	Ile	Lys	Cys	Val	Arg	Gln	Val	Arg	Arg	Asp	Asn	Tyr	Asp	Ala	Leu	100	105	110
Arg	Ser	Val	Leu	Phe	Gln	Ile	Phe	Ser	Gln	Gly	Ile	Ser	Phe	Pro	Ser	115	120	125
Trp	Met	Lys	Glu	Lys	Asp	Ile	Val	Lys	Leu	Pro	Glu	Lys	Leu	Leu	Phe	130	135	140
Ser	Gln	Gly	Cys	Asn	Trp	Ile	Gln	Gln	Tyr	Ser	Phe	Gly	Pro	Glu	Lys	145	150	155
Tyr	Thr	Gly	Ser	Asn	Val	Phe	Gly	Lys	Leu	Arg	Lys	Tyr	Val	Glu	Leu	165	170	175
Leu	Lys	Thr	Gln	Trp	Thr	Glu	Phe	Asn	Gly	Ile	Arg	Asp	Tyr	His	Lys	180	185	190
Arg	Gly	Ser	Met	Cys	Asn	Thr	Leu	Phe	Ser	Asp	Ala	Ile	Leu	Glu	Tyr	195	200	205
Lys	Leu	Tyr	Glu	Ala	Leu	Lys	Phe	Ile	Met	Leu	Tyr	Gln	Val	Thr	Glu	210	215	220
Val	Tyr	Glu	Gln	Met	Lys	Thr	Lys	Lys	Val	Ile	Pro	Ser	Leu	Phe	Arg	225	230	235
Leu	Leu	Phe	Ser	Arg	Glu	Thr	Ser	Ser	Asp	Pro	Leu	Ser	Phe	Met	Met	245	250	255
Asn	His	Leu	Asn	Ser	Val	Gly	Asp	Thr	Cys	Gly	Leu	Glu	Gln	Ile	Asp	260	265	270
Met	Phe	Ile	Leu	Gly	Tyr	Ser	Leu	Glu	Val	Lys	Ile	Lys	Val	Phe	Arg	275	280	285
Leu	Phe	Lys	Phe	Asn	Ser	Arg	Asp	Phe	Glu	Val	Cys	Tyr	Pro	Glu	Glu	290	295	300
Pro	Leu	Arg	Asp	Trp	Pro	Glu	Ile	Ser	Leu	Leu	Thr	Glu	Asn	Asp	Arg	305	310	315
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Lys Ile Glu Gln Ala Met Asp Leu Val Lys Asn His Leu Met Tyr Ala  
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Val Arg Glu Glu Val Glu Ile Leu Lys Glu Gln Ile Arg Glu Leu Val  
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Glu Lys Asn Ser Gln Leu Glu Arg Glu Asn Thr Leu Leu Lys Thr Leu  
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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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<210> 230
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<212> DNA
<213> Homo sapiens

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<210> 231
<211> 780
<212> DNA
<213> Homo sapiens

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<210> 232
<211> 1262
<212> DNA
<213> Homo sapiens

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<400> 232

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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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<211> 692

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA  
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<400> 253

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158

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<213> Homo sapiens

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 <212> DNA  
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tgtgtttcag	tgccattcct agctttggaa agtttctatc tgtccatgtg tatacaagtc 300
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ca	at	t	g	g	c	c	a	gc	ca	a	a	t	a	g	c	c	c	a	g	a	g	ag	at	a	a	g	c	c	c	a	840
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 <212> DNA  
 <213> Homo sapiens

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c	t	a	t	c	a	t	g	c	t	a	t	t	a	t	t	t	t	g	c	t	t	t	g	a	g	c	t	t		180
t	g	c	a	t	t	t	c	a	t	a	a	a	g	g	g	a	g	a	t	g	c	a	t	c	t	g	c		240	
t	g	t	g	t	t	c	a	g	t	c	c	a	t	t	c	c	a	g	t	t	t	g	a	a	g	t	t		300	
a	a	t	g	c	c	c	c	a	t	t	t	g	t	t	t	t	c	t	t	t	a	a	c	c	g	a	a		360	
t	a	c	t	t	a	a	t	a	a	a	a	a	t	g	c	a	a	a	a	a	a	a	a	a	a	a		420		
a	t	g	c	a	t	t	t	c	t	a	t	a	g	a	t	g	a	a	a	a	a	a	a	a	a	a		480		
c	t	a	g	c	t	t	t	a	c	a	g	t	g	a	t	a	a	a	c	c	t	a	t	t	a	a		540		
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c	a	a	t	t	g	g	c	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		840			
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 <212> DNA  
 <213> Homo sapiens

<400> 282																														
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c	t	a	t	c	a	t	g	c	t	a	t	t	a	t	t	t	g	c	t	t	t	g	a	g	c	t	t		180	
t	g	c	a	t	t	t	c	a	t	a	a	a	g	g	a	g	a	t	g	c	a	t	c	t	g	c		240		
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c	c	a	c	t	g	t	c	c	t	t	c	c	t	g	t	t	t	c	c	t	c	t	c	t	c	t		660		
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t	g	c	a	t	g	g	g	a	c	a	t	c	t	g	g	t	c	t	a	g	c	c	t	t	g		780			
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 <212> DNA  
 <213> Homo sapiens

<400> 283																														
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a	t	c	c	t	a	t	t	c	a	g	t	a	t	g	a	t	t	a	c	t	a	g	a	t	g	g	g	g	t	120
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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<210> 286  
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 <212> DNA  
 <213> Homo sapiens

<400> 286

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 <211> 577  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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<212> DNA  
<213> Homo sapiens

<400> 315

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<210> 320

<211> 2201

<212> DNA

<213> Homo sapiens

<400> 320

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<210> 321  
 <211> 462  
 <212> DNA  
 <213> Homo sapiens

<400> 321						
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<210> 322  
 <211> 836  
 <212> DNA  
 <213> Homo sapiens

<400> 322						
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tcttagccag	ctcgtgtctg	aatgtgagt	accttttggg	cctggcactg	ggcaggcctt	780
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<210> 323



<211> 462  
 <212> DNA  
 <213> Homo sapiens

<400> 323  
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 tatgtaccca cagtatacag gttaatctac tttattcaga gtctactgat ttaaagtta 180  
 aactcattta gaaaatccct tcatacatac atctaaacta gtgtagatc aaatatctgg 240  
 gtactgtggc tcatccaggc tgaaccataa aattaacccat cacacctgtg caagcgcttt 300  
 tccctcctgg atggtgtcct agggatgaca gaggagggga aagccaggtc tctgcttcaa 360  
 ggagacaaaa ttatgcatac gaagaaatta agaatgctgc tgtgtctgtg gagtagccat 420  
 tcttttattc ctttactttc ttaacaaact tgcttttact ta 462

<210> 324  
 <211> 1100  
 <212> DNA  
 <213> Homo sapiens

<400> 324  
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 gccaccaacc gcataaggcg agtgcaaag ccatgccatc tgcaggctcc aatgtaccat 180  
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<210> 325  
 <211> 1099  
 <212> DNA  
 <213> Homo sapiens

<400> 325  
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<210> 326  
 <211> 869  
 <212> DNA  
 <213> Homo sapiens

<400> 326						
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<210> 327  
 <211> 851  
 <212> DNA  
 <213> Homo sapiens

<400> 327						
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<210> 328  
 <211> 147  
 <212> DNA  
 <213> Homo sapiens

<400> 328  
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 tctctactaa aaatacaaaa attagcc 147

<210> 329  
 <211> 111  
 <212> DNA  
 <213> Homo sapiens

<400> 329  
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<210> 330  
 <211> 610  
 <212> DNA  
 <213> Homo sapiens

<400> 330  
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 gagctcgaga 610

<210> 331  
 <211> 610  
 <212> DNA  
 <213> Homo sapiens

<400> 331  
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 cctagtctca gttacttgga aggctgaggc aggaggatca cttgagccca ggtggttgcg 480  
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<210> 332  
 <211> 612  
 <212> DNA  
 <213> Homo sapiens

<400> 332

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<210> 333  
 <211> 375  
 <212> DNA  
 <213> Homo sapiens

<400> 333						
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<210> 334  
 <211> 873  
 <212> DNA  
 <213> Homo sapiens

<400> 334						
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cagttttctc	ctacaattaa	catcttaatc	atgatacatt	tatgaaaacc	aagaaattaa	840
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<210> 335  
 <211> 375  
 <212> DNA  
 <213> Homo sapiens

<400> 335						
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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<211> 318
<212> DNA
<213> Homo sapiens

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